



FIG. 1b

	catalytic loop	β7	β8	activation loop	
VEGF - R2	1011 QVAKGMEFDLASRKC IHRDLAARN ILLSEKNVVKICDFGLARDIYKDPDYVRKGDARLPLK				1070
FGFR1	606 QVARGMEYSLASKKC IHRDLAARNVLTEDNVMKIADFG LARDIHHI DYYKKT TNGRLPVK				665
IRK	1115 E IADGMEY -LNAKKFVHRDLAARNCMVAHDFTVKIGDFGMTRDI YETDYRKGKGLLPVR				1174
VEGF - R1	1005 QVARGMEFDLSSRKC IHRDLAARN ILLSENNVVKIDDFGLARDIYKNPDYVRKGDTRLPLK				1064
PDGFRα	801 QVARGMEF -LASKKC IHRDLAARNVLLAQQKI VKIDDFGLARDIMHDSNYVSKGSTFLPVK				860
	αEF	αF	αG		
VEGF - R2	1071 WMAPET I FDRVYTIQSDVWSFGVLLWEIFSLGASPYPGVK IDEEFCRRLLKEGTRMRRAPDY				923
FGFR1	666 WMAPEALFDR IYTHQSDVWSFGVLLWEIFTLGGSPYGPVVEELF -KLLKEGHRMDRKP SN				568
IRK	1175 WMAPESLKDGVFTTSSDMMWSFGVW WEITSLAEQPYQGLSNEQVL -KFVMDGGYLDLQPDN				1083
VEGF - R1	1065 WMAPESIFDKIYSTKSDVWSYGVLLWEIFSLGGSPYGVQMDDEFCSRLREGMRRAPEY				916
PDGFRα	861 WMAPESIFDNLYTTLSDVWSYGI LLWEIFSLGGTPYPGMMVDSIFYNKIKSGYRMAFKPDH				681
	αH	αI			
VEGF - R2	1131 TTPEMYQTMLDCWHGEPSSQRPTFSELVEHLGNLLQANAQQD				1171
FGFR1	725 CTNELYMMMRDCWHAVPSQRPTFKQLVEDLDRIVALTSNQE				765
IRK	1234 CPERVTDLMRMCWQFNPNMRPTFLEIVNLLKDDLHPSFPEV				1274
VEGF - R1	1125 STPEIYQIMLDCWHRDPKERPRFAELVEKLGDLLQANVQQD				1165
PDGFRα	921 ATSEVYEIMVKCWNSEPEKRPSFYHLSEIVENLLPGQYKKS				961

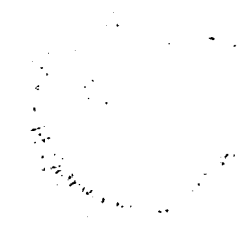
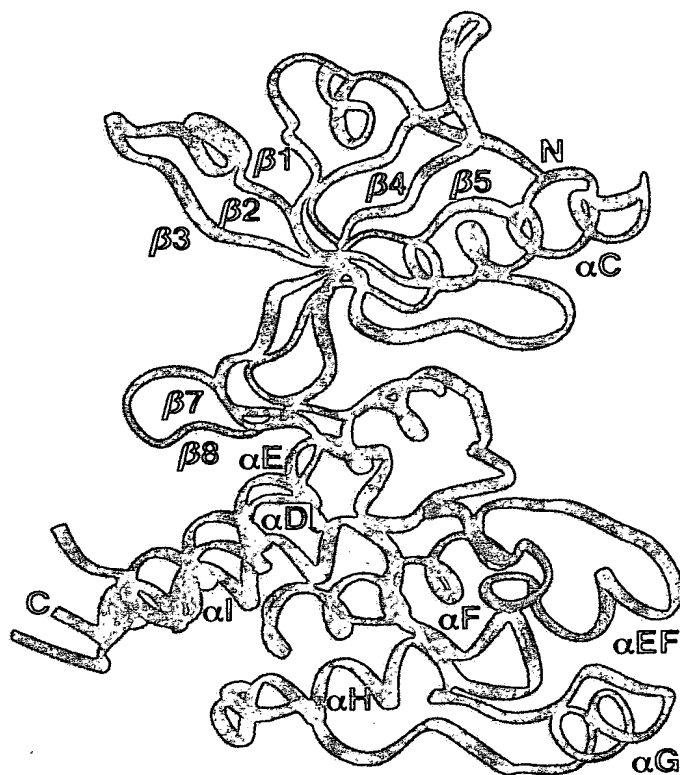
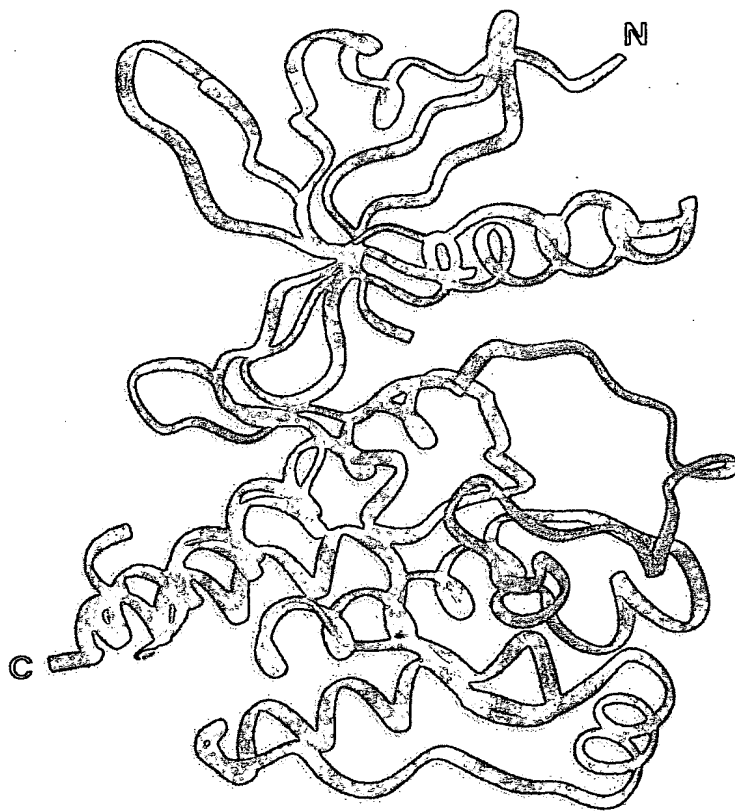


FIG. 2a



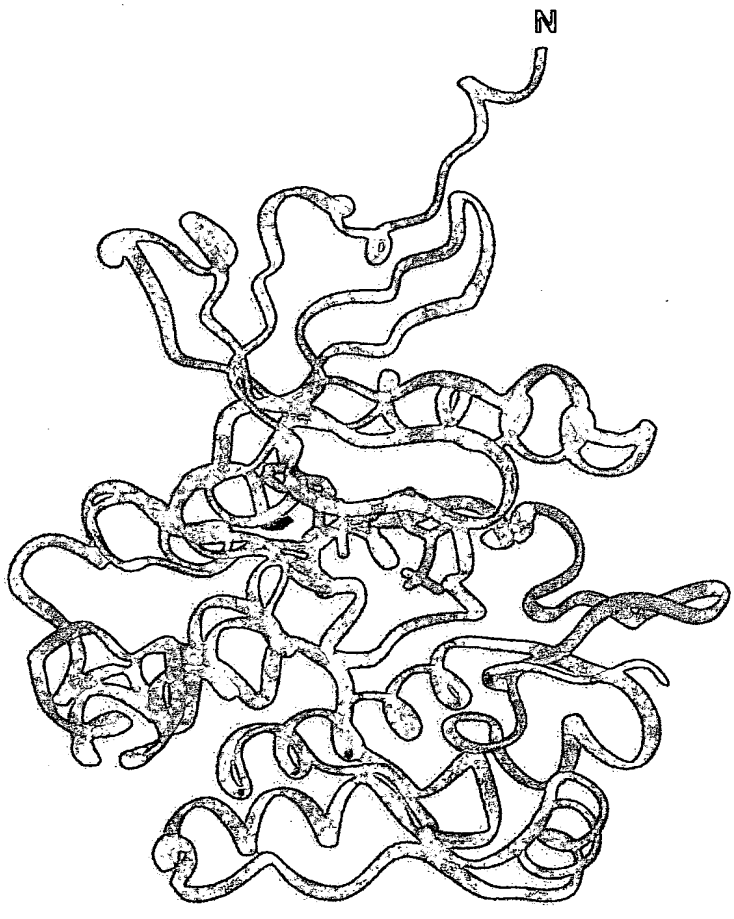
VEGFR2D50P

FIG. 2b



FGFR1

FIG. 2c



IRKP

FIG. 3a

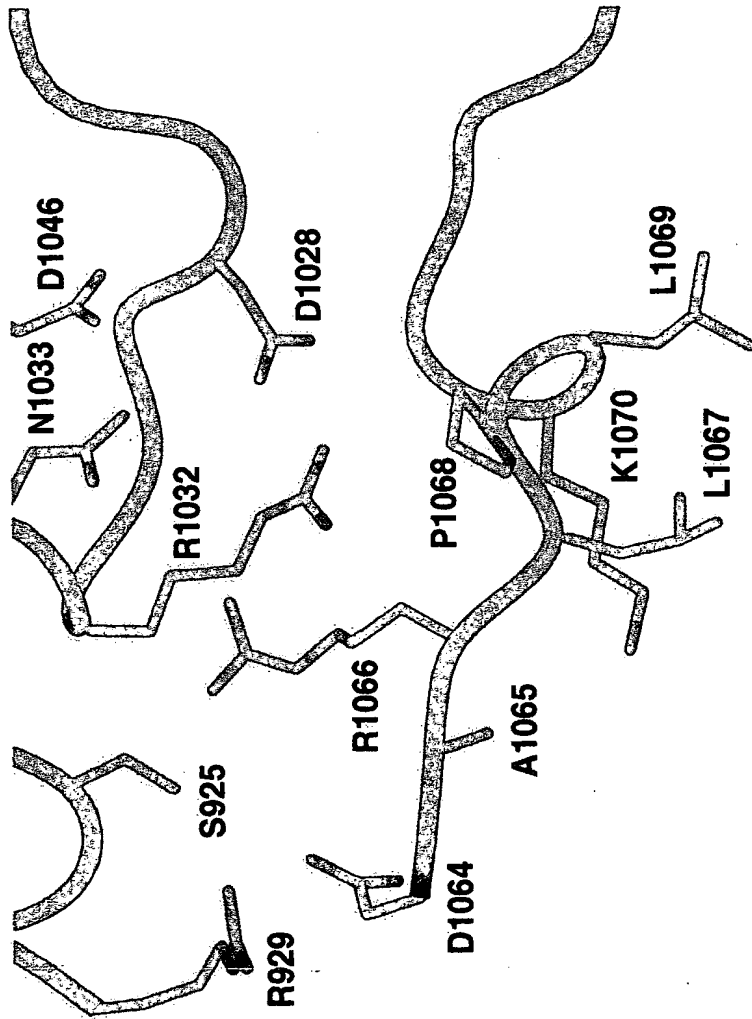


FIG. 3b

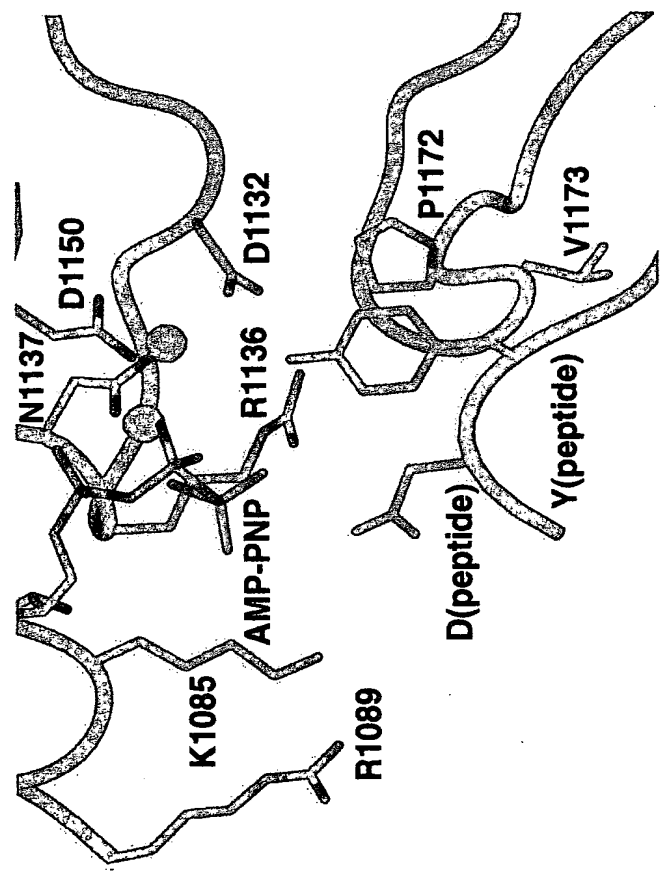
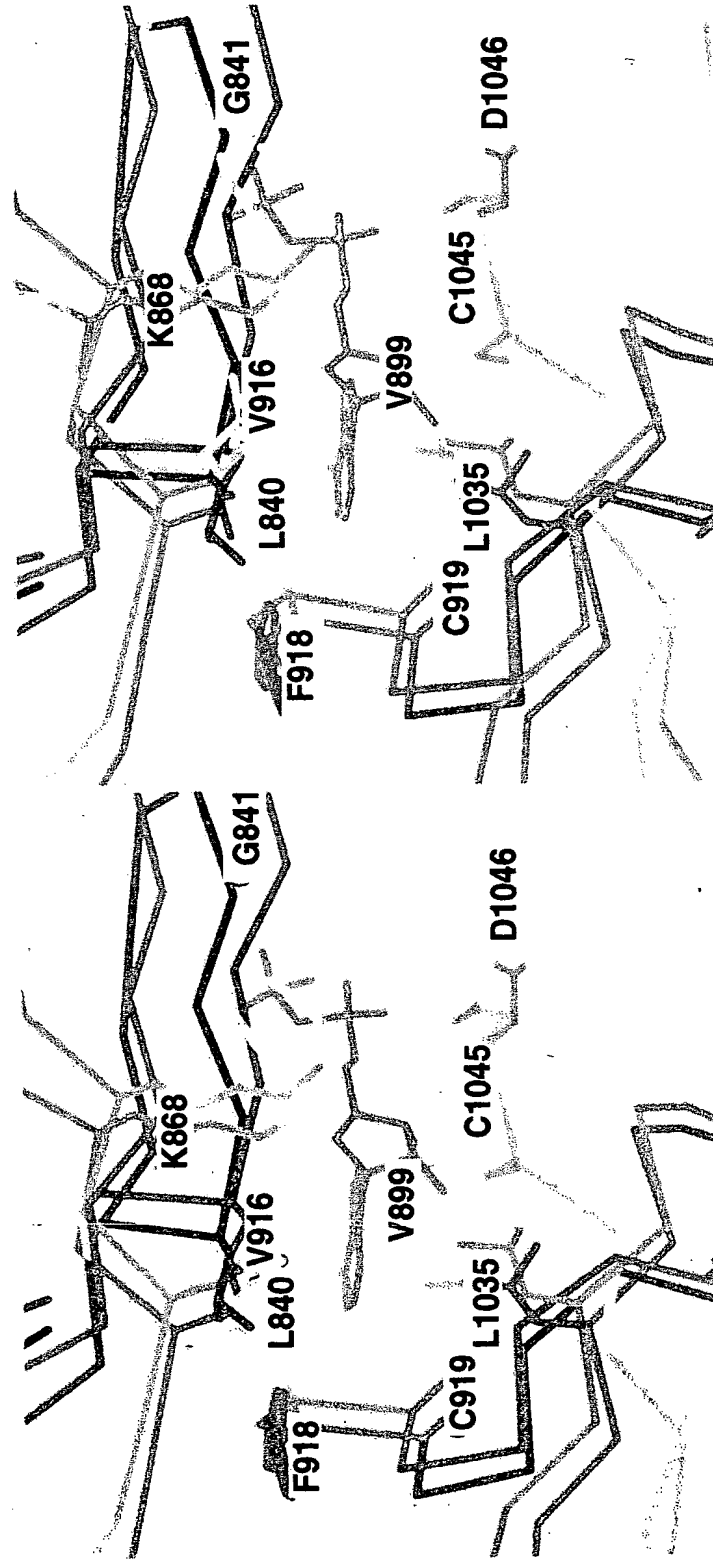


FIG. 4

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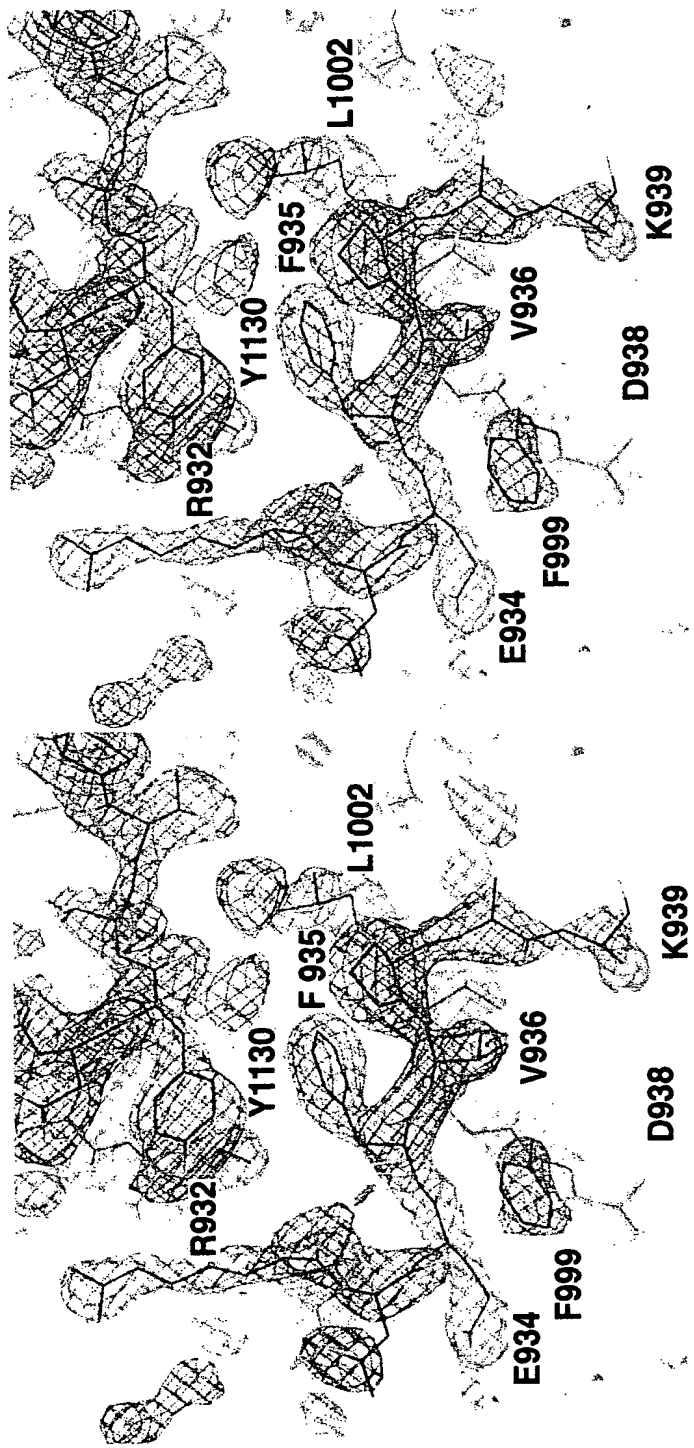






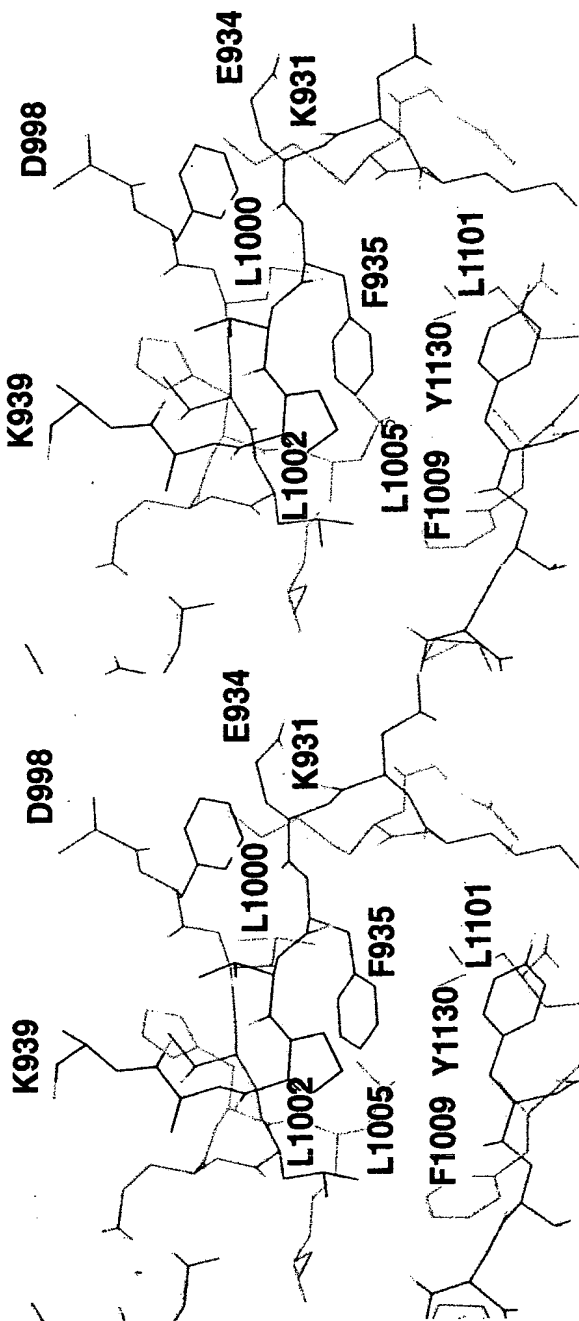
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FIG. 5



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FIG. 6



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FIG. 7(1)

ATOM	1	CB	LEU	820	49.908	45.905	17.938	1.00	48.95
ATOM	2	CG	LEU	820	50.568	45.069	16.833	1.00	43.57
ATOM	3	CD1	LEU	820	50.004	45.358	15.456	1.00	43.59
ATOM	4	CD2	LEU	820	52.066	45.345	16.886	1.00	47.45
ATOM	5	C	LEU	820	49.216	48.321	17.530	1.00	48.14
ATOM	6	O	LEU	820	48.196	48.587	18.187	1.00	52.58
ATOM	9	N	LEU	820	50.481	47.725	19.581	1.00	53.68
ATOM	11	CA	LEU	820	50.302	47.387	18.117	1.00	50.63
ATOM	12	N	PRO	821	49.435	48.842	16.306	1.00	41.32
ATOM	13	CD	PRO	821	50.680	48.870	15.520	1.00	45.54
ATOM	14	CA	PRO	821	48.465	49.733	15.700	1.00	31.06
ATOM	15	CB	PRO	821	49.067	49.985	14.352	1.00	28.89
ATOM	16	CG	PRO	821	50.509	50.148	14.734	1.00	43.44
ATOM	17	C	PRO	821	47.123	49.165	15.569	1.00	26.14
ATOM	18	O	PRO	821	46.948	47.970	15.374	1.00	26.03
ATOM	19	N	TYR	822	46.154	50.024	15.776	1.00	16.25
ATOM	21	CA	TYR	822	44.799	49.643	15.582	1.00	18.88
ATOM	22	CB	TYR	822	44.061	49.519	16.916	1.00	17.42
ATOM	23	CG	TYR	822	42.584	49.316	16.728	1.00	18.46
ATOM	24	CD1	TYR	822	41.674	50.341	17.047	1.00	21.12
ATOM	25	CE1	TYR	822	40.314	50.206	16.812	1.00	13.80
ATOM	26	CD2	TYR	822	42.086	48.144	16.175	1.00	12.24
ATOM	27	CE2	TYR	822	40.714	47.997	15.951	1.00	13.44
ATOM	28	CZ	TYR	822	39.838	49.028	16.268	1.00	14.38
ATOM	29	OH	TYR	822	38.480	48.887	16.073	1.00	19.73
ATOM	31	C	TYR	822	44.253	50.760	14.705	1.00	16.93
ATOM	32	O	TYR	822	44.172	51.904	15.112	1.00	20.70
ATOM	33	N	ASP	823	44.054	50.456	13.439	1.00	15.20
ATOM	35	CA	ASP	823	43.509	51.418	12.506	1.00	13.55
ATOM	36	CB	ASP	823	43.856	50.945	11.091	1.00	11.37
ATOM	37	CG	ASP	823	43.456	51.933	10.016	1.00	16.45
ATOM	38	OD1	ASP	823	42.546	52.754	10.258	1.00	21.86
ATOM	39	OD2	ASP	823	44.022	51.854	8.904	1.00	12.33
ATOM	40	C	ASP	823	41.983	51.489	12.738	1.00	14.14
ATOM	41	O	ASP	823	41.224	50.722	12.172	1.00	19.73
ATOM	42	N	ALA	824	41.539	52.415	13.572	1.00	11.88
ATOM	44	CA	ALA	824	40.126	52.554	13.876	1.00	14.80
ATOM	45	CB	ALA	824	39.928	53.610	14.973	1.00	12.02
ATOM	46	C	ALA	824	39.259	52.893	12.658	1.00	19.09
ATOM	47	O	ALA	824	38.062	52.610	12.641	1.00	23.54

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## FIG. 7(2)

ATOM	48	N	SER	825	39.857	53.496	11.635	1.00	18.25
ATOM	50	CA	SER	825	39.118	53.867	10.450	1.00	12.65
ATOM	51	CB	SER	825	40.023	54.678	9.543	1.00	11.88
ATOM	52	OG	SER	825	39.315	55.003	8.370	1.00	20.94
ATOM	54	C	SER	825	38.669	52.594	9.746	1.00	12.30
ATOM	55	O	SER	825	37.543	52.461	9.317	1.00	14.94
ATOM	56	N	LYS	826	39.557	51.633	9.642	1.00	14.98
ATOM	58	CA	LYS	826	39.188	50.396	8.988	1.00	22.45
ATOM	59	CB	LYS	826	40.445	49.660	8.483	1.00	16.46
ATOM	60	CG	LYS	826	40.091	48.370	7.820	1.00	23.00
ATOM	61	CD	LYS	826	40.962	48.071	6.657	1.00	26.19
ATOM	62	CE	LYS	826	42.391	48.041	7.092	1.00	35.70
ATOM	63	NZ	LYS	826	43.272	48.003	5.891	1.00	40.17
ATOM	67	C	LYS	826	38.324	49.437	9.839	1.00	21.47
ATOM	68	O	LYS	826	37.363	48.850	9.336	1.00	22.56
ATOM	69	N	TRP	827	38.589	49.376	11.144	1.00	20.96
ATOM	71	CA	TRP	827	37.917	48.406	11.996	1.00	16.87
ATOM	72	CB	TRP	827	38.974	47.620	12.785	1.00	18.53
ATOM	73	CG	TRP	827	39.942	46.898	11.910	1.00	12.95
ATOM	74	CD2	TRP	827	39.643	45.810	11.029	1.00	9.73
ATOM	75	CE2	TRP	827	40.795	45.562	10.274	1.00	9.36
ATOM	76	CE3	TRP	827	38.505	45.038	10.801	1.00	11.54
ATOM	77	CD1	TRP	827	41.233	47.231	11.684	1.00	12.87
ATOM	78	NE1	TRP	827	41.753	46.440	10.689	1.00	10.49
ATOM	80	CZ2	TRP	827	40.848	44.565	9.299	1.00	12.36
ATOM	81	CZ3	TRP	827	38.556	44.053	9.826	1.00	10.55
ATOM	82	CH2	TRP	827	39.718	43.830	9.087	1.00	11.88
ATOM	83	C	TRP	827	36.830	48.795	12.953	1.00	17.75
ATOM	84	O	TRP	827	35.985	47.951	13.271	1.00	15.08
ATOM	85	N	GLU	828	36.855	50.043	13.416	1.00	16.92
ATOM	87	CA	GLU	828	35.908	50.518	14.413	1.00	19.52
ATOM	88	CB	GLU	828	36.289	51.920	14.885	1.00	17.10
ATOM	89	CG	GLU	828	35.581	52.363	16.148	1.00	12.70
ATOM	90	CD	GLU	828	36.106	51.707	17.400	1.00	21.57
ATOM	91	OE1	GLU	828	37.219	51.118	17.386	1.00	21.15
ATOM	92	OE2	GLU	828	35.402	51.819	18.426	1.00	22.43
ATOM	93	C	GLU	828	34.494	50.510	13.910	1.00	20.94
ATOM	94	O	GLU	828	34.245	51.024	12.818	1.00	26.92
ATOM	95	N	PHE	829	33.569	49.990	14.734	1.00	21.12
ATOM	97	CA	PHE	829	32.138	49.880	14.391	1.00	17.93
ATOM	98	CB	PHE	829	31.791	48.400	14.160	1.00	16.42
ATOM	99	CG	PHE	829	30.384	48.164	13.669	1.00	20.17

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## FIG. 7(3)

ATOM	100	CD1 PHE	829	30.020	48.484	12.363	1.00	21.31
ATOM	101	CD2 PHE	829	29.415	47.612	14.516	1.00	23.04
ATOM	102	CE1 PHE	829	28.712	48.254	11.921	1.00	18.76
ATOM	103	CE2 PHE	829	28.093	47.375	14.071	1.00	15.20
ATOM	104	CZ PHE	829	27.750	47.692	12.792	1.00	17.17
ATOM	105	C PHE	829	31.310	50.495	15.533	1.00	14.65
ATOM	106	O PHE	829	31.574	50.211	16.686	1.00	16.15
ATOM	107	N PRO	830	30.270	51.298	15.224	1.00	13.29
ATOM	108	CD PRO	830	29.707	51.633	13.901	1.00	11.63
ATOM	109	CA PRO	830	29.481	51.918	16.292	1.00	14.76
ATOM	110	CB PRO	830	28.636	52.948	15.565	1.00	13.82
ATOM	111	CG PRO	830	28.414	52.364	14.252	1.00	14.42
ATOM	112	C PRO	830	28.629	51.005	17.098	1.00	19.79
ATOM	113	O PRO	830	27.750	50.339	16.562	1.00	26.60
ATOM	114	N ARG	831	28.830	51.060	18.410	1.00	18.39
ATOM	116	CA ARG	831	28.085	50.246	19.335	1.00	14.56
ATOM	117	CB ARG	831	28.469	50.580	20.743	1.00	11.53
ATOM	118	CG ARG	831	29.808	50.050	21.092	1.00	12.65
ATOM	119	CD ARG	831	30.117	50.265	22.554	1.00	12.46
ATOM	120	NE ARG	831	31.261	51.148	22.584	1.00	20.55
ATOM	122	CZ ARG	831	32.469	50.756	22.885	1.00	12.04
ATOM	123	NH1 ARG	831	32.688	49.518	23.234	1.00	23.80
ATOM	126	NH2 ARG	831	33.467	51.501	22.526	1.00	23.84
ATOM	129	C ARG	831	26.625	50.415	19.174	1.00	18.55
ATOM	130	O ARG	831	25.852	49.561	19.607	1.00	25.61
ATOM	131	N ASP	832	26.221	51.517	18.552	1.00	25.32
ATOM	133	CA ASP	832	24.794	51.734	18.354	1.00	29.47
ATOM	134	CB ASP	832	24.393	53.230	18.408	1.00	34.15
ATOM	135	CG ASP	832	24.817	54.036	17.174	1.00	33.50
ATOM	136	OD1 ASP	832	25.519	53.528	16.280	1.00	34.09
ATOM	137	OD2 ASP	832	24.422	55.216	17.110	1.00	41.48
ATOM	138	C ASP	832	24.230	51.000	17.139	1.00	27.13
ATOM	139	O ASP	832	23.023	50.905	16.991	1.00	28.08
ATOM	140	N ARG	833	25.104	50.466	16.290	1.00	24.18
ATOM	142	CA ARG	833	24.684	49.695	15.134	1.00	19.93
ATOM	143	CB ARG	833	25.661	49.902	14.011	1.00	25.94
ATOM	144	CG ARG	833	25.313	51.073	13.158	1.00	38.97
ATOM	145	CD ARG	833	25.929	50.901	11.766	1.00	53.19
ATOM	146	NE ARG	833	25.525	51.930	10.807	1.00	63.47
ATOM	148	CZ ARG	833	25.419	53.229	11.087	1.00	70.42
ATOM	149	NH1 ARG	833	25.040	54.080	10.139	1.00	74.08
ATOM	152	NH2 ARG	833	25.695	53.690	12.306	1.00	72.08
ATOM	155	C ARG	833	24.656	48.218	15.498	1.00	18.62

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## FIG. 7(4)

ATOM	156	O	ARG	833	24.289	47.370	14.690	1.00	18.27
ATOM	157	N	LEU	834	25.013	47.943	16.747	1.00	18.35
ATOM	159	CA	LEU	834	25.089	46.600	17.329	1.00	22.59
ATOM	160	CB	LEU	834	26.488	46.398	17.946	1.00	25.91
ATOM	161	CG	LEU	834	27.073	45.003	18.139	1.00	24.64
ATOM	162	CD1	LEU	834	27.185	44.327	16.805	1.00	21.77
ATOM	163	CD2	LEU	834	28.428	45.085	18.785	1.00	17.43
ATOM	164	C	LEU	834	23.988	46.326	18.387	1.00	24.77
ATOM	165	O	LEU	834	23.886	46.973	19.433	1.00	24.03
ATOM	166	N	LYS	835	23.173	45.335	18.087	1.00	28.94
ATOM	168	CA	LYS	835	22.072	44.942	18.940	1.00	32.84
ATOM	169	CB	LYS	835	20.794	44.913	18.081	1.00	31.34
ATOM	170	CG	LYS	835	19.529	44.697	18.839	1.00	36.63
ATOM	171	CD	LYS	835	18.359	44.407	17.940	1.00	39.31
ATOM	172	CE	LYS	835	17.074	44.414	18.783	1.00	48.99
ATOM	173	NZ	LYS	835	17.074	43.448	19.950	1.00	48.86
ATOM	177	C	LYS	835	22.431	43.532	19.420	1.00	31.79
ATOM	178	O	LYS	835	22.408	42.609	18.616	1.00	34.57
ATOM	179	N	LEU	836	22.854	43.395	20.680	1.00	33.17
ATOM	181	CA	LEU	836	23.229	42.101	21.277	1.00	34.01
ATOM	182	CB	LEU	836	23.970	42.292	22.593	1.00	33.96
ATOM	183	CG	LEU	836	25.400	42.796	22.462	1.00	42.50
ATOM	184	CD1	LEU	836	26.082	42.858	23.854	1.00	41.15
ATOM	185	CD2	LEU	836	26.153	41.860	21.501	1.00	40.93
ATOM	186	C	LEU	836	22.053	41.181	21.547	1.00	33.27
ATOM	187	O	LEU	836	21.017	41.631	22.025	1.00	31.15
ATOM	188	N	GLY	837	22.268	39.882	21.330	1.00	36.34
ATOM	190	CA	GLY	837	21.228	38.881	21.536	1.00	34.95
ATOM	191	C	GLY	837	21.603	37.761	22.497	1.00	35.64
ATOM	192	O	GLY	837	22.203	37.980	23.554	1.00	39.23
ATOM	193	N	LYS	838	21.254	36.541	22.126	1.00	35.31
ATOM	195	CA	LYS	838	21.531	35.375	22.962	1.00	37.86
ATOM	196	CB	LYS	838	20.647	34.192	22.539	1.00	41.52
ATOM	197	C	LYS	838	22.991	34.935	22.989	1.00	35.93
ATOM	198	O	LYS	838	23.650	34.851	21.946	1.00	34.37
ATOM	199	N	PRO	839	23.499	34.608	24.187	1.00	33.68
ATOM	200	CD	PRO	839	22.820	34.757	25.486	1.00	34.48
ATOM	201	CA	PRO	839	24.880	34.158	24.363	1.00	37.11
ATOM	202	CB	PRO	839	24.927	33.750	25.833	1.00	37.46
ATOM	203	CG	PRO	839	23.970	34.710	26.472	1.00	37.04
ATOM	204	C	PRO	839	25.148	32.963	23.474	1.00	39.09
ATOM	205	O	PRO	839	24.303	32.085	23.327	1.00	38.13
ATOM	206	N	LEU	840	26.261	33.013	22.767	1.00	43.08

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## FIG. 7(5)

ATOM	208	CA	LEU	840	26.646	31.915	21.917	1.00	47.73
ATOM	209	CB	LEU	840	27.396	32.426	20.692	1.00	41.83
ATOM	210	CG	LEU	840	26.386	32.957	19.697	1.00	39.60
ATOM	211	CD1	LEU	840	27.080	33.697	18.595	1.00	42.69
ATOM	212	CD2	LEU	840	25.582	31.795	19.156	1.00	38.40
ATOM	213	C	LEU	840	27.523	30.987	22.747	1.00	54.84
ATOM	214	O	LEU	840	27.479	29.768	22.577	1.00	59.76
ATOM	215	N	GLY	841	28.248	31.563	23.706	1.00	60.51
ATOM	217	CA	GLY	841	29.140	30.781	24.547	1.00	60.96
ATOM	218	C	GLY	841	29.660	31.544	25.750	1.00	63.95
ATOM	219	O	GLY	841	29.497	32.764	25.857	1.00	64.35
ATOM	220	N	ARG	842	30.279	30.809	26.668	1.00	65.26
ATOM	222	CA	ARG	842	30.823	31.388	27.887	1.00	65.12
ATOM	223	CB	ARG	842	30.027	30.897	29.091	1.00	61.50
ATOM	224	C	ARG	842	32.300	30.995	28.004	1.00	64.23
ATOM	225	O	ARG	842	32.957	30.720	26.986	1.00	68.80
ATOM	226	N	GLY	843	32.822	31.003	29.226	1.00	60.14
ATOM	228	CA	GLY	843	34.206	30.639	29.453	1.00	60.53
ATOM	229	C	GLY	843	34.676	31.165	30.789	1.00	62.56
ATOM	230	O	GLY	843	33.902	31.764	31.535	1.00	61.31
ATOM	231	N	ALA	844	35.925	30.888	31.140	1.00	66.30
ATOM	233	CA	ALA	844	36.450	31.390	32.403	1.00	69.69
ATOM	234	CB	ALA	844	37.655	30.574	32.851	1.00	68.47
ATOM	235	C	ALA	844	36.839	32.855	32.212	1.00	73.15
ATOM	236	O	ALA	844	36.723	33.667	33.144	1.00	75.00
ATOM	237	N	PHE	845	37.251	33.184	30.981	1.00	76.12
ATOM	239	CA	PHE	845	37.699	34.538	30.618	1.00	74.99
ATOM	240	CB	PHE	845	39.135	34.479	30.014	1.00	72.01
ATOM	241	C	PHE	845	36.766	35.353	29.700	1.00	73.81
ATOM	242	O	PHE	845	36.404	36.499	30.020	1.00	76.82
ATOM	243	N	GLY	846	36.368	34.767	28.576	1.00	68.48
ATOM	245	CA	GLY	846	35.527	35.495	27.645	1.00	61.76
ATOM	246	C	GLY	846	34.102	35.023	27.606	1.00	57.98
ATOM	247	O	GLY	846	33.658	34.305	28.491	1.00	59.43
ATOM	248	N	GLN	847	33.400	35.413	26.553	1.00	55.08
ATOM	250	CA	GLN	847	32.006	35.050	26.354	1.00	52.26
ATOM	251	CB	GLN	847	31.160	35.668	27.449	1.00	55.14
ATOM	252	CG	GLN	847	29.706	35.703	27.075	1.00	61.40
ATOM	253	CD	GLN	847	28.951	36.735	27.844	1.00	65.75
ATOM	254	OE1	GLN	847	27.772	36.543	28.150	1.00	69.74
ATOM	255	NE2	GLN	847	29.614	37.852	28.166	1.00	68.83
ATOM	258	C	GLN	847	31.508	35.573	25.001	1.00	47.29
ATOM	259	O	GLN	847	31.637	36.764	24.713	1.00	52.89

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## FIG. 7(6)

ATOM	260	N	VAL	848	30.912	34.707	24.195	1.00	38.17
ATOM	262	CA	VAL	848	30.418	35.122	22.898	1.00	30.28
ATOM	263	CB	VAL	848	30.792	34.137	21.833	1.00	28.01
ATOM	264	CG1	VAL	848	30.542	34.744	20.442	1.00	23.32
ATOM	265	CG2	VAL	848	32.239	33.759	22.016	1.00	22.18
ATOM	266	C	VAL	848	28.920	35.262	22.939	1.00	31.80
ATOM	267	O	VAL	848	28.221	34.525	23.625	1.00	32.87
ATOM	268	N	ILE	849	28.410	36.196	22.166	1.00	29.87
ATOM	270	CA	ILE	849	26.990	36.436	22.159	1.00	25.35
ATOM	271	CB	ILE	849	26.602	37.448	23.328	1.00	31.46
ATOM	272	CG2	ILE	849	27.766	38.373	23.732	1.00	32.09
ATOM	273	CG1	ILE	849	25.353	38.244	23.003	1.00	31.00
ATOM	274	CD1	ILE	849	24.895	39.035	24.199	1.00	37.56
ATOM	275	C	ILE	849	26.493	36.851	20.798	1.00	23.02
ATOM	276	O	ILE	849	27.167	37.540	20.070	1.00	27.56
ATOM	277	N	GLU	850	25.376	36.294	20.390	1.00	25.56
ATOM	279	CA	GLU	850	24.802	36.626	19.107	1.00	26.63
ATOM	280	CB	GLU	850	23.577	35.785	18.894	1.00	27.45
ATOM	281	CG	GLU	850	23.414	35.361	17.487	1.00	34.57
ATOM	282	CD	GLU	850	22.155	34.590	17.293	1.00	34.46
ATOM	283	OE1	GLU	850	21.602	34.655	16.184	1.00	42.38
ATOM	284	OE2	GLU	850	21.710	33.924	18.248	1.00	40.93
ATOM	285	C	GLU	850	24.422	38.111	19.028	1.00	27.83
ATOM	286	O	GLU	850	24.240	38.755	20.047	1.00	25.02
ATOM	287	N	ALA	851	24.291	38.640	17.814	1.00	29.11
ATOM	289	CA	ALA	851	23.958	40.043	17.621	1.00	27.32
ATOM	290	CB	ALA	851	25.080	40.922	18.170	1.00	18.65
ATOM	291	C	ALA	851	23.731	40.387	16.160	1.00	26.61
ATOM	292	O	ALA	851	24.328	39.785	15.283	1.00	26.99
ATOM	293	N	ASP	852	22.836	41.343	15.917	1.00	30.82
ATOM	295	CA	ASP	852	22.538	41.862	14.566	1.00	31.76
ATOM	296	CB	ASP	852	21.050	42.186	14.386	1.00	39.33
ATOM	297	CG	ASP	852	20.222	40.993	13.993	1.00	47.41
ATOM	298	OD1	ASP	852	19.687	40.330	14.906	1.00	54.12
ATOM	299	OD2	ASP	852	20.066	40.754	12.775	1.00	53.02
ATOM	300	C	ASP	852	23.265	43.204	14.506	1.00	25.97
ATOM	301	O	ASP	852	23.096	44.021	15.416	1.00	21.64
ATOM	302	N	ALA	853	24.099	43.411	13.495	1.00	20.18
ATOM	304	CA	ALA	853	24.818	44.672	13.342	1.00	23.55
ATOM	305	CB	ALA	853	26.305	44.440	13.292	1.00	23.32
ATOM	306	C	ALA	853	24.311	45.222	12.026	1.00	23.89
ATOM	307	O	ALA	853	24.079	44.439	11.108	1.00	26.15
ATOM	308	N	PHE	854	24.044	46.526	11.936	1.00	22.87



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## FIG. 7(7)

ATOM	310	CA	PHE	854	23.529	47.059	10.680	1.00	16.46
ATOM	311	CB	PHE	854	22.487	48.135	10.901	1.00	23.71
ATOM	312	CG	PHE	854	22.020	48.758	9.643	1.00	27.62
ATOM	313	CD1	PHE	854	22.476	50.011	9.266	1.00	28.26
ATOM	314	CD2	PHE	854	21.205	48.052	8.771	1.00	31.56
ATOM	315	CE1	PHE	854	22.136	50.549	8.025	1.00	30.16
ATOM	316	CE2	PHE	854	20.856	48.592	7.512	1.00	34.04
ATOM	317	CZ	PHE	854	21.328	49.838	7.145	1.00	28.32
ATOM	318	C	PHE	854	24.618	47.569	9.794	1.00	14.10
ATOM	319	O	PHE	854	25.493	48.299	10.209	1.00	17.34
ATOM	320	N	GLY	855	24.556	47.163	8.553	1.00	17.45
ATOM	322	CA	GLY	855	25.559	47.571	7.604	1.00	18.50
ATOM	323	C	GLY	855	26.988	47.318	8.020	1.00	22.65
ATOM	324	O	GLY	855	27.806	48.193	7.777	1.00	26.82
ATOM	325	N	ILE	856	27.332	46.150	8.580	1.00	23.51
ATOM	327	CA	ILE	856	28.740	45.886	8.983	1.00	24.11
ATOM	328	CB	ILE	856	28.868	44.692	9.980	1.00	27.72
ATOM	329	CG2	ILE	856	28.535	43.370	9.259	1.00	29.88
ATOM	330	CG1	ILE	856	30.282	44.663	10.608	1.00	23.26
ATOM	331	CD1	ILE	856	30.371	44.079	12.034	1.00	21.70
ATOM	332	C	ILE	856	29.704	45.665	7.805	1.00	24.83
ATOM	333	O	ILE	856	30.918	45.721	7.950	1.00	28.37
ATOM	334	N	ASP	857	29.145	45.460	6.626	1.00	27.69
ATOM	336	CA	ASP	857	29.926	45.248	5.420	1.00	31.23
ATOM	337	CB	ASP	857	29.566	43.891	4.838	1.00	34.80
ATOM	338	CG	ASP	857	28.074	43.658	4.811	1.00	40.03
ATOM	339	OD1	ASP	857	27.328	44.597	4.448	1.00	43.33
ATOM	340	OD2	ASP	857	27.641	42.549	5.200	1.00	46.87
ATOM	341	C	ASP	857	29.654	46.323	4.370	1.00	32.81
ATOM	342	O	ASP	857	29.721	46.040	3.183	1.00	38.59
ATOM	343	N	LYS	858	29.299	47.529	4.813	1.00	34.74
ATOM	345	CA	LYS	858	28.987	48.690	3.946	1.00	34.64
ATOM	346	CB	LYS	858	30.061	48.947	2.889	1.00	31.38
ATOM	347	CG	LYS	858	31.462	48.964	3.418	1.00	34.36
ATOM	348	CD	LYS	858	31.605	49.890	4.603	1.00	39.41
ATOM	349	CE	LYS	858	33.005	49.791	5.228	1.00	39.87
ATOM	350	NZ	LYS	858	34.059	50.089	4.218	1.00	39.89
ATOM	354	C	LYS	858	27.629	48.709	3.254	1.00	32.27
ATOM	355	O	LYS	858	27.249	49.737	2.724	1.00	35.02
ATOM	356	N	THR	859	26.891	47.607	3.258	1.00	32.20
ATOM	358	CA	THR	859	25.597	47.610	2.600	1.00	30.11
ATOM	359	CB	THR	859	25.355	46.332	1.785	1.00	30.38
ATOM	360	OG1	THR	859	25.365	45.187	2.641	1.00	32.29

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## FIG. 7(8)

ATOM 362	CG2 THR 859	26.437	46.179	0.757	1.00	32.22
ATOM 363	C THR 859	24.450	47.839	3.546	1.00	28.71
ATOM 364	O THR 859	24.577	47.647	4.750	1.00	30.55
ATOM 365	N ALA 860	23.303	48.201	2.989	1.00	30.07
ATOM 367	CA ALA 860	22.123	48.474	3.784	1.00	28.01
ATOM 368	CB ALA 860	21.141	49.253	2.928	1.00	23.78
ATOM 369	C ALA 860	21.461	47.222	4.394	1.00	28.00
ATOM 370	O ALA 860	20.251	47.100	4.373	1.00	31.77
ATOM 371	N THR 861	22.228	46.325	5.008	1.00	29.99
ATOM 373	CA THR 861	21.663	45.078	5.577	1.00	27.77
ATOM 374	CB THR 861	22.186	43.857	4.808	1.00	20.97
ATOM 375	OG1 THR 861	23.614	43.926	4.687	1.00	27.23
ATOM 377	CG2 THR 861	21.608	43.794	3.449	1.00	29.39
ATOM 378	C THR 861	21.986	44.790	7.055	1.00	31.89
ATOM 379	O THR 861	23.095	45.077	7.532	1.00	34.73
ATOM 380	N CYS 862	21.037	44.183	7.770	1.00	34.09
ATOM 382	CA CYS 862	21.250	43.805	9.178	1.00	31.63
ATOM 383	CB CYS 862	19.922	43.756	9.943	1.00	27.50
ATOM 384	SG CYS 862	19.863	44.908	11.327	1.00	41.79
ATOM 385	C CYS 862	21.876	42.424	9.146	1.00	25.51
ATOM 386	O CYS 862	21.241	41.492	8.700	1.00	30.38
ATOM 387	N ARG 863	23.136	42.307	9.541	1.00	27.68
ATOM 389	CA ARG 863	23.839	41.025	9.532	1.00	28.29
ATOM 390	CB ARG 863	25.211	41.210	8.882	1.00	36.18
ATOM 391	CG ARG 863	25.775	39.945	8.275	1.00	48.71
ATOM 392	CD ARG 863	27.282	40.034	7.943	1.00	58.46
ATOM 393	NE ARG 863	27.824	38.721	7.550	1.00	65.04
ATOM 395	CZ ARG 863	29.112	38.452	7.330	1.00	65.66
ATOM 396	NH1 ARG 863	29.482	37.219	6.985	1.00	67.60
ATOM 399	NH2 ARG 863	30.030	39.409	7.421	1.00	66.49
ATOM 402	C ARG 863	24.006	40.409	10.943	1.00	28.34
ATOM 403	O ARG 863	24.337	41.125	11.904	1.00	24.64
ATOM 404	N THR 864	23.735	39.100	11.078	1.00	23.23
ATOM 406	CA THR 864	23.900	38.426	12.364	1.00	18.91
ATOM 407	CB THR 864	23.062	37.099	12.489	1.00	19.40
ATOM 408	OG1 THR 864	21.672	37.435	12.547	1.00	24.20
ATOM 410	CG2 THR 864	23.371	36.351	13.793	1.00	8.83
ATOM 411	C THR 864	25.385	38.148	12.462	1.00	20.93
ATOM 412	O THR 864	26.001	37.736	11.468	1.00	20.14
ATOM 413	N VAL 865	25.962	38.442	13.634	1.00	16.03
ATOM 415	CA VAL 865	27.381	38.254	13.897	1.00	16.69
ATOM 416	CB VAL 865	28.175	39.620	13.906	1.00	17.70
ATOM 417	CG1 VAL 865	28.107	40.299	12.539	1.00	21.22

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## FIG. 7(9)

ATOM 418 CG2 VAL 865	27.625	40.554	14.979	1.00	20.92
ATOM 419 C VAL 865	27.533	37.660	15.276	1.00	15.90
ATOM 420 O VAL 865	26.552	37.554	15.995	1.00	16.43
ATOM 421 N ALA 866	28.775	37.295	15.612	1.00	16.37
ATOM 423 CA ALA 866	29.210	36.753	16.910	1.00	18.08
ATOM 424 CB ALA 866	30.022	35.490	16.691	1.00	7.41
ATOM 425 C ALA 866	30.117	37.834	17.588	1.00	23.87
ATOM 426 O ALA 866	31.121	38.261	16.998	1.00	24.17
ATOM 427 N VAL 867	29.790	38.235	18.827	1.00	26.69
ATOM 429 CA VAL 867	30.534	39.268	19.554	1.00	20.37
ATOM 430 CB VAL 867	29.592	40.365	20.088	1.00	17.71
ATOM 431 CG1 VAL 867	30.361	41.586	20.519	1.00	9.32
ATOM 432 CG2 VAL 867	28.635	40.753	19.027	1.00	14.57
ATOM 433 C VAL 867	31.320	38.748	20.728	1.00	21.67
ATOM 434 O VAL 867	30.784	38.085	21.606	1.00	23.57
ATOM 435 N LYS 868	32.616	38.982	20.694	1.00	21.65
ATOM 437 CA LYS 868	33.471	38.593	21.782	1.00	27.02
ATOM 438 CB LYS 868	34.860	38.169	21.289	1.00	29.71
ATOM 439 CG LYS 868	34.842	36.963	20.405	1.00	37.08
ATOM 440 CD LYS 868	36.151	36.810	19.666	1.00	44.81
ATOM 441 CE LYS 868	36.183	35.512	18.868	1.00	45.52
ATOM 442 NZ LYS 868	37.548	35.298	18.274	1.00	47.28
ATOM 446 C LYS 868	33.585	39.842	22.647	1.00	26.11
ATOM 447 O LYS 868	33.962	40.914	22.188	1.00	24.72
ATOM 448 N MET 869	33.184	39.721	23.888	1.00	29.77
ATOM 450 CA MET 869	33.299	40.821	24.803	1.00	32.95
ATOM 451 CB MET 869	31.958	41.491	24.996	1.00	30.57
ATOM 452 CG MET 869	30.900	40.542	25.463	1.00	32.29
ATOM 453 SD MET 869	29.348	41.157	24.961	1.00	42.68
ATOM 454 CE MET 869	29.251	42.663	25.919	1.00	35.32
ATOM 455 C MET 869	33.778	40.205	26.095	1.00	40.29
ATOM 456 O MET 869	33.921	38.967	26.216	1.00	35.26
ATOM 457 N LEU 870	34.079	41.066	27.051	1.00	46.88
ATOM 459 CA LEU 870	34.521	40.576	28.337	1.00	51.36
ATOM 460 CB LEU 870	35.544	41.549	28.937	1.00	48.55
ATOM 461 CG LEU 870	36.862	41.677	28.180	1.00	44.32
ATOM 462 CD1 LEU 870	37.734	42.739	28.855	1.00	36.89
ATOM 463 CD2 LEU 870	37.535	40.306	28.149	1.00	41.04
ATOM 464 C LEU 870	33.344	40.306	29.311	1.00	53.63
ATOM 465 O LEU 870	32.163	40.615	29.037	1.00	52.68
ATOM 466 N LYS 871	33.675	39.644	30.412	1.00	56.89
ATOM 468 CA LYS 871	32.695	39.346	31.426	1.00	58.53
ATOM 469 CB LYS 871	33.083	38.077	32.169	1.00	59.89

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## FIG. 7(10)

ATOM	470	CG	LYS	871	31.903	37.220	32.546	1.00	63.81
ATOM	471	CD	LYS	871	31.912	35.965	31.719	1.00	65.43
ATOM	472	CE	LYS	871	33.268	35.318	31.853	1.00	70.59
ATOM	473	NZ	LYS	871	33.318	34.051	31.135	1.00	76.57
ATOM	477	C	LYS	871	32.649	40.518	32.404	1.00	59.44
ATOM	478	O	LYS	871	33.582	41.342	32.464	1.00	56.75
ATOM	479	N	GLU	872	31.566	40.571	33.177	1.00	61.50
ATOM	481	CA	GLU	872	31.357	41.618	34.177	1.00	64.12
ATOM	482	CB	GLU	872	29.928	41.539	34.739	1.00	66.85
ATOM	483	CG	GLU	872	28.846	41.903	33.729	1.00	71.27
ATOM	484	CD	GLU	872	29.060	41.218	32.387	1.00	74.41
ATOM	485	OE1	GLU	872	28.900	39.980	32.326	1.00	76.27
ATOM	486	OE2	GLU	872	29.443	41.903	31.411	1.00	74.20
ATOM	487	C	GLU	872	32.387	41.424	35.288	1.00	60.87
ATOM	488	O	GLU	872	32.331	40.441	36.026	1.00	61.34
ATOM	489	N	GLY	873	33.368	42.319	35.335	1.00	57.40
ATOM	491	CA	GLY	873	34.408	42.223	36.337	1.00	53.93
ATOM	492	C	GLY	873	35.703	41.641	35.803	1.00	52.30
ATOM	493	O	GLY	873	36.518	41.103	36.563	1.00	51.95
ATOM	494	N	ALA	874	35.881	41.721	34.491	1.00	51.13
ATOM	496	CA	ALA	874	37.090	41.217	33.862	1.00	51.21
ATOM	497	CB	ALA	874	36.875	41.049	32.335	1.00	48.57
ATOM	498	C	ALA	874	38.270	42.172	34.199	1.00	50.40
ATOM	499	O	ALA	874	38.101	43.388	34.369	1.00	48.57
ATOM	500	N	THR	875	39.465	41.609	34.245	1.00	48.33
ATOM	502	CA	THR	875	40.657	42.334	34.617	1.00	51.59
ATOM	503	CB	THR	875	41.572	41.428	35.447	1.00	54.42
ATOM	504	OG1	THR	875	42.677	42.184	35.937	1.00	60.69
ATOM	506	CG2	THR	875	42.107	40.280	34.593	1.00	60.52
ATOM	507	C	THR	875	41.455	42.830	33.448	1.00	51.15
ATOM	508	O	THR	875	41.395	42.263	32.372	1.00	52.26
ATOM	509	N	HIS	876	42.343	43.770	33.733	1.00	53.93
ATOM	511	CA	HIS	876	43.215	44.392	32.737	1.00	55.68
ATOM	512	CB	HIS	876	44.170	45.383	33.419	1.00	54.06
ATOM	513	CG	HIS	876	45.609	44.980	33.361	1.00	56.52
ATOM	514	CD2	HIS	876	46.595	45.314	32.487	1.00	56.83
ATOM	515	ND1	HIS	876	46.191	44.149	34.297	1.00	60.22
ATOM	517	CE1	HIS	876	47.472	43.992	34.009	1.00	62.12
ATOM	518	NE2	HIS	876	47.739	44.689	32.916	1.00	59.66
ATOM	520	C	HIS	876	44.003	43.385	31.898	1.00	54.72
ATOM	521	O	HIS	876	44.510	43.712	30.810	1.00	54.08
ATOM	522	N	SER	877	44.167	42.189	32.434	1.00	52.07
ATOM	524	CA	SER	877	44.872	41.160	31.704	1.00	53.73

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## FIG. 7(11)

ATOM 525 CB SER 877	45.622	40.256	32.669	1.00	57.58
ATOM 526 OG SER 877	46.559	41.054	33.379	1.00	63.62
ATOM 528 C SER 877	43.880	40.410	30.810	1.00	51.29
ATOM 529 O SER 877	44.227	39.962	29.715	1.00	50.11
ATOM 530 N GLU 878	42.629	40.320	31.246	1.00	47.72
ATOM 532 CA GLU 878	41.620	39.696	30.410	1.00	45.39
ATOM 533 CB GLU 878	40.335	39.483	31.201	1.00	48.19
ATOM 534 CG GLU 878	40.383	38.191	32.013	1.00	60.86
ATOM 535 CD GLU 878	39.304	38.086	33.092	1.00	68.27
ATOM 536 OE1 GLU 878	38.448	37.162	33.027	1.00	70.85
ATOM 537 OE2 GLU 878	39.336	38.911	34.029	1.00	67.92
ATOM 538 C GLU 878	41.448	40.702	29.277	1.00	40.09
ATOM 539 O GLU 878	41.536	40.365	28.104	1.00	38.92
ATOM 540 N HIS 879	41.393	41.966	29.659	1.00	34.60
ATOM 542 CA HIS 879	41.252	43.072	28.732	1.00	36.68
ATOM 543 CB HIS 879	41.070	44.392	29.505	1.00	44.03
ATOM 544 CG HIS 879	40.637	45.547	28.652	1.00	43.54
ATOM 545 CD2 HIS 879	39.403	46.025	28.364	1.00	40.08
ATOM 546 ND1 HIS 879	41.529	46.307	27.917	1.00	39.08
ATOM 548 CE1 HIS 879	40.860	47.192	27.202	1.00	40.82
ATOM 549 NE2 HIS 879	39.572	47.045	27.452	1.00	49.01
ATOM 551 C HIS 879	42.455	43.172	27.797	1.00	34.17
ATOM 552 O HIS 879	42.293	43.494	26.626	1.00	33.65
ATOM 553 N ARG 880	43.664	42.993	28.319	1.00	33.25
ATOM 555 CA ARG 880	44.838	43.033	27.470	1.00	29.84
ATOM 556 CB ARG 880	46.124	42.932	28.299	1.00	36.53
ATOM 557 CG ARG 880	46.615	41.470	28.452	1.00	50.57
ATOM 558 CD ARG 880	48.121	41.276	28.649	1.00	56.95
ATOM 559 NE ARG 880	48.555	41.748	29.960	1.00	63.99
ATOM 561 CZ ARG 880	49.030	42.967	30.175	1.00	66.67
ATOM 562 NH1 ARG 880	49.391	43.327	31.397	1.00	66.45
ATOM 565 NH2 ARG 880	49.170	43.813	29.157	1.00	66.52
ATOM 568 C ARG 880	44.741	41.799	26.533	1.00	29.72
ATOM 569 O ARG 880	45.246	41.808	25.401	1.00	21.81
ATOM 570 N ALA 881	44.070	40.747	27.006	1.00	28.49
ATOM 572 CA ALA 881	43.942	39.514	26.227	1.00	31.72
ATOM 573 CB ALA 881	43.587	38.342	27.142	1.00	31.57
ATOM 574 C ALA 881	42.978	39.592	25.044	1.00	29.98
ATOM 575 O ALA 881	43.319	39.154	23.944	1.00	31.95
ATOM 576 N LEU 882	41.766	40.099	25.273	1.00	27.12
ATOM 578 CA LEU 882	40.804	40.248	24.193	1.00	27.43
ATOM 579 CB LEU 882	39.493	40.784	24.728	1.00	23.93
ATOM 580 CG LEU 882	38.402	40.925	23.662	1.00	25.91

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## FIG. 7(12)

ATOM	581	CD1	LEU	882	38.435	39.722	22.743	1.00	21.91
ATOM	582	CD2	LEU	882	37.013	41.102	24.325	1.00	23.61
ATOM	583	C	LEU	882	41.368	41.230	23.151	1.00	30.62
ATOM	584	O	LEU	882	41.312	40.982	21.945	1.00	27.61
ATOM	585	N	MET	883	41.940	42.325	23.643	1.00	29.74
ATOM	587	CA	MET	883	42.548	43.364	22.808	1.00	30.75
ATOM	588	CB	MET	883	43.001	44.516	23.738	1.00	27.47
ATOM	589	CG	MET	883	43.432	45.828	23.084	1.00	33.64
ATOM	590	SD	MET	883	42.313	46.592	21.882	1.00	33.18
ATOM	591	CE	MET	883	41.031	47.285	22.943	1.00	33.54
ATOM	592	C	MET	883	43.711	42.756	21.965	1.00	29.92
ATOM	593	O	MET	883	43.862	43.022	20.766	1.00	28.38
ATOM	594	N	SER	884	44.501	41.893	22.588	1.00	29.75
ATOM	596	CA	SER	884	45.597	41.231	21.912	1.00	28.29
ATOM	597	CB	SER	884	46.343	40.391	22.923	1.00	32.03
ATOM	598	OG	SER	884	47.220	39.502	22.270	1.00	44.59
ATOM	600	C	SER	884	45.091	40.329	20.778	1.00	29.39
ATOM	601	O	SER	884	45.595	40.359	19.654	1.00	28.92
ATOM	602	N	GLU	885	44.084	39.526	21.071	1.00	25.33
ATOM	604	CA	GLU	885	43.559	38.661	20.058	1.00	27.47
ATOM	605	CB	GLU	885	42.563	37.692	20.661	1.00	31.61
ATOM	606	CG	GLU	885	41.142	38.108	20.642	1.00	46.01
ATOM	607	CD	GLU	885	40.215	36.903	20.799	1.00	55.19
ATOM	608	OE1	GLU	885	40.018	36.469	21.964	1.00	58.80
ATOM	609	OE2	GLU	885	39.715	36.379	19.762	1.00	54.01
ATOM	610	C	GLU	885	42.945	39.470	18.924	1.00	28.59
ATOM	611	O	GLU	885	42.833	38.983	17.805	1.00	26.67
ATOM	612	N	LEU	886	42.560	40.712	19.211	1.00	27.06
ATOM	614	CA	LEU	886	41.994	41.594	18.205	1.00	23.75
ATOM	615	CB	LEU	886	41.483	42.887	18.847	1.00	22.79
ATOM	616	CG	LEU	886	41.122	44.033	17.905	1.00	17.60
ATOM	617	CD1	LEU	886	39.981	43.608	16.999	1.00	11.98
ATOM	618	CD2	LEU	886	40.747	45.285	18.702	1.00	18.31
ATOM	619	C	LEU	886	43.049	41.936	17.147	1.00	24.77
ATOM	620	O	LEU	886	42.767	41.880	15.939	1.00	22.15
ATOM	621	N	LYS	887	44.265	42.246	17.602	1.00	25.08
ATOM	623	CA	LYS	887	45.384	42.613	16.722	1.00	24.94
ATOM	624	CB	LYS	887	46.517	43.227	17.544	1.00	29.70
ATOM	625	CG	LYS	887	46.105	44.304	18.560	1.00	30.67
ATOM	626	CD	LYS	887	45.556	45.551	17.895	1.00	28.99
ATOM	627	CE	LYS	887	45.170	46.645	18.923	1.00	26.07
ATOM	628	NZ	LYS	887	46.354	47.216	19.621	1.00	17.59
ATOM	632	C	LYS	887	45.921	41.407	15.925	1.00	25.59

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## FIG. 7(13)

ATOM	633	O	LYS	887	46.388	41.547	14.793	1.00	30.23
ATOM	634	N	ILE	888	45.917	40.235	16.542	1.00	20.48
ATOM	636	CA	ILE	888	46.347	39.028	15.859	1.00	21.46
ATOM	637	CB	ILE	888	46.306	37.795	16.816	1.00	22.73
ATOM	638	CG2	ILE	888	46.604	36.556	16.047	1.00	24.05
ATOM	639	CG1	ILE	888	47.355	37.929	17.937	1.00	23.32
ATOM	640	CD1	ILE	888	47.092	37.058	19.190	1.00	18.29
ATOM	641	C	ILE	888	45.392	38.822	14.663	1.00	19.51
ATOM	642	O	ILE	888	45.834	38.710	13.529	1.00	19.15
ATOM	643	N	LEU	889	44.088	38.828	14.922	1.00	15.54
ATOM	645	CA	LEU	889	43.078	38.677	13.872	1.00	20.73
ATOM	646	CB	LEU	889	41.658	38.818	14.446	1.00	19.41
ATOM	647	CG	LEU	889	41.204	37.652	15.372	1.00	22.61
ATOM	648	CD1	LEU	889	39.735	37.752	15.697	1.00	13.49
ATOM	649	CD2	LEU	889	41.500	36.263	14.764	1.00	18.87
ATOM	650	C	LEU	889	43.308	39.678	12.762	1.00	24.12
ATOM	651	O	LEU	889	43.342	39.344	11.584	1.00	28.65
ATOM	652	N	ILE	890	43.461	40.931	13.138	1.00	29.62
ATOM	654	CA	ILE	890	43.753	41.953	12.158	1.00	26.41
ATOM	655	CB	ILE	890	43.966	43.310	12.865	1.00	24.45
ATOM	656	CG2	ILE	890	44.555	44.333	11.888	1.00	30.36
ATOM	657	CG1	ILE	890	42.645	43.825	13.438	1.00	19.80
ATOM	658	CD1	ILE	890	42.812	45.061	14.241	1.00	14.93
ATOM	659	C	ILE	890	45.053	41.519	11.415	1.00	28.37
ATOM	660	O	ILE	890	45.126	41.553	10.191	1.00	24.83
ATOM	661	N	HIS	891	46.066	41.099	12.164	1.00	27.37
ATOM	663	CA	HIS	891	47.309	40.659	11.567	1.00	27.76
ATOM	664	CB	HIS	891	48.277	40.175	12.654	1.00	36.80
ATOM	665	CG	HIS	891	49.509	39.507	12.100	1.00	47.58
ATOM	666	CD2	HIS	891	50.811	39.869	12.147	1.00	46.38
ATOM	667	ND1	HIS	891	49.450	38.394	11.276	1.00	52.71
ATOM	669	CE1	HIS	891	50.660	38.114	10.825	1.00	50.46
ATOM	670	NE2	HIS	891	51.505	38.993	11.340	1.00	54.62
ATOM	672	C	HIS	891	47.098	39.536	10.537	1.00	27.01
ATOM	673	O	HIS	891	47.522	39.647	9.402	1.00	32.82
ATOM	674	N	ILE	892	46.580	38.403	10.995	1.00	24.99
ATOM	676	CA	ILE	892	46.300	37.216	10.181	1.00	23.19
ATOM	677	CB	ILE	892	45.233	36.282	10.907	1.00	24.73
ATOM	678	CG2	ILE	892	44.643	35.295	9.941	1.00	20.03
ATOM	679	CG1	ILE	892	45.828	35.522	12.104	1.00	26.32
ATOM	680	CD1	ILE	892	47.015	36.222	12.787	1.00	36.72
ATOM	681	C	ILE	892	45.700	37.625	8.848	1.00	22.57
ATOM	682	O	ILE	892	46.115	37.155	7.775	1.00	25.20

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## FIG. 7(14)

ATOM	683	N	GLY	893	44.699	38.492	8.916	1.00	23.88
ATOM	685	CA	GLY	893	44.034	38.910	7.702	1.00	25.37
ATOM	686	C	GLY	893	42.794	38.080	7.403	1.00	25.54
ATOM	687	O	GLY	893	42.303	37.326	8.224	1.00	32.60
ATOM	688	N	HIS	894	42.327	38.149	6.176	1.00	26.97
ATOM	690	CA	HIS	894	41.120	37.457	5.797	1.00	26.35
ATOM	691	CB	HIS	894	40.233	38.464	5.042	1.00	31.72
ATOM	692	CG	HIS	894	39.114	37.833	4.274	1.00	35.68
ATOM	693	CD2	HIS	894	37.818	37.609	4.608	1.00	34.18
ATOM	694	ND1	HIS	894	39.271	37.346	2.989	1.00	38.36
ATOM	696	CE1	HIS	894	38.121	36.854	2.568	1.00	36.24
ATOM	697	NE2	HIS	894	37.224	37.004	3.527	1.00	35.86
ATOM	699	C	HIS	894	41.253	36.182	4.958	1.00	24.38
ATOM	700	O	HIS	894	42.045	36.108	4.007	1.00	24.24
ATOM	701	N	HIS	895	40.426	35.202	5.280	1.00	17.00
ATOM	703	CA	HIS	895	40.379	33.994	4.494	1.00	18.62
ATOM	704	CB	HIS	895	41.363	32.929	4.931	1.00	15.85
ATOM	705	CG	HIS	895	41.446	31.814	3.943	1.00	21.47
ATOM	706	CD2	HIS	895	42.076	31.737	2.745	1.00	17.93
ATOM	707	ND1	HIS	895	40.675	30.676	4.042	1.00	21.96
ATOM	709	CE1	HIS	895	40.819	29.956	2.938	1.00	21.22
ATOM	710	NE2	HIS	895	41.663	30.578	2.137	1.00	10.16
ATOM	712	C	HIS	895	38.979	33.467	4.626	1.00	15.66
ATOM	713	O	HIS	895	38.396	33.656	5.663	1.00	18.76
ATOM	714	N	LEU	896	38.419	32.865	3.567	1.00	21.74
ATOM	716	CA	LEU	896	37.042	32.306	3.584	1.00	18.37
ATOM	717	CB	LEU	896	36.652	31.762	2.210	1.00	17.64
ATOM	718	CG	LEU	896	35.297	31.068	2.218	1.00	25.15
ATOM	719	CD1	LEU	896	34.218	32.077	2.454	1.00	24.41
ATOM	720	CD2	LEU	896	35.042	30.342	0.934	1.00	25.59
ATOM	721	C	LEU	896	36.867	31.172	4.569	1.00	17.58
ATOM	722	O	LEU	896	35.783	30.937	5.068	1.00	23.11
ATOM	723	N	ASN	897	37.952	30.475	4.849	1.00	15.99
ATOM	725	CA	ASN	897	37.878	29.340	5.725	1.00	18.36
ATOM	726	CB	ASN	897	38.589	28.134	5.078	1.00	20.86
ATOM	727	CG	ASN	897	37.928	27.689	3.747	1.00	16.88
ATOM	728	OD1	ASN	897	38.567	27.692	2.694	1.00	14.51
ATOM	729	ND2	ASN	897	36.639	27.346	3.799	1.00	12.11
ATOM	732	C	ASN	897	38.293	29.541	7.188	1.00	25.65
ATOM	733	O	ASN	897	38.648	28.556	7.858	1.00	22.22
ATOM	734	N	VAL	898	38.357	30.800	7.660	1.00	23.53
ATOM	736	CA	VAL	898	38.631	31.079	9.081	1.00	15.38
ATOM	737	CB	VAL	898	40.036	31.719	9.457	1.00	11.47



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## FIG. 7(15)

ATOM 738 CG1 VAL 898	41.146	30.813	9.017	1.00	14.76
ATOM 739 CG2 VAL 898	40.236	33.119	8.883	1.00	8.71
ATOM 740 C VAL 898	37.475	31.959	9.477	1.00	15.57
ATOM 741 O VAL 898	36.698	32.382	8.620	1.00	17.87
ATOM 742 N VAL 899	37.226	32.049	10.773	1.00	18.55
ATOM 744 CA VAL 899	36.155	32.882	11.264	1.00	20.68
ATOM 745 CB VAL 899	35.757	32.487	12.720	1.00	19.98
ATOM 746 CG1 VAL 899	34.618	33.384	13.202	1.00	18.29
ATOM 747 CG2 VAL 899	35.346	31.016	12.788	1.00	12.67
ATOM 748 C VAL 899	36.807	34.272	11.244	1.00	21.95
ATOM 749 O VAL 899	37.725	34.517	12.003	1.00	21.42
ATOM 750 N ASN 900	36.352	35.164	10.363	1.00	23.43
ATOM 752 CA ASN 900	36.930	36.526	10.226	1.00	23.52
ATOM 753 CB ASN 900	36.737	37.061	8.803	1.00	19.45
ATOM 754 CG ASN 900	37.350	36.177	7.782	1.00	19.58
ATOM 755 OD1 ASN 900	38.578	36.087	7.667	1.00	17.65
ATOM 756 ND2 ASN 900	36.511	35.528	7.004	1.00	20.34
ATOM 759 C ASN 900	36.484	37.641	11.152	1.00	17.00
ATOM 760 O ASN 900	35.343	37.704	11.598	1.00	16.94
ATOM 761 N LEU 901	37.413	38.544	11.384	1.00	17.25
ATOM 763 CA LEU 901	37.167	39.733	12.160	1.00	17.98
ATOM 764 CB LEU 901	38.494	40.447	12.426	1.00	16.80
ATOM 765 CG LEU 901	38.444	41.819	13.101	1.00	14.17
ATOM 766 CD1 LEU 901	38.018	41.673	14.560	1.00	11.71
ATOM 767 CD2 LEU 901	39.782	42.435	13.008	1.00	2.76
ATOM 768 C LEU 901	36.354	40.578	11.174	1.00	20.28
ATOM 769 O LEU 901	36.669	40.612	9.965	1.00	18.06
ATOM 770 N LEU 902	35.280	41.180	11.686	1.00	19.74
ATOM 772 CA LEU 902	34.398	42.031	10.917	1.00	15.84
ATOM 773 CB LEU 902	32.950	41.593	11.087	1.00	11.70
ATOM 774 CG LEU 902	32.615	40.230	10.473	1.00	13.49
ATOM 775 CD1 LEU 902	31.142	39.827	10.774	1.00	13.78
ATOM 776 CD2 LEU 902	32.856	40.270	8.981	1.00	12.15
ATOM 777 C LEU 902	34.566	43.486	11.345	1.00	19.59
ATOM 778 O LEU 902	34.466	44.380	10.510	1.00	23.95
ATOM 779 N GLY 903	34.854	43.724	12.625	1.00	20.15
ATOM 781 CA GLY 903	35.037	45.090	13.114	1.00	21.60
ATOM 782 C GLY 903	35.147	45.075	14.620	1.00	24.02
ATOM 783 O GLY 903	35.070	43.991	15.194	1.00	26.53
ATOM 784 N ALA 904	35.305	46.236	15.269	1.00	25.19
ATOM 786 CA ALA 904	35.411	46.293	16.740	1.00	18.80
ATOM 787 CB ALA 904	36.830	46.074	17.177	1.00	12.62
ATOM 788 C ALA 904	34.886	47.559	17.386	1.00	20.83

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## FIG. 7(16)

ATOM 789 O ALA 904	34.789	48.616	16.765	1.00	26.12
ATOM 790 N CYS 905	34.617	47.443	18.674	1.00	21.21
ATOM 792 CA CYS 905	34.128	48.530	19.493	1.00	19.91
ATOM 793 CB CYS 905	32.804	48.160	20.115	1.00	16.08
ATOM 794 SG CYS 905	31.561	47.894	18.851	1.00	15.32
ATOM 795 C CYS 905	35.176	48.687	20.556	1.00	23.00
ATOM 796 O CYS 905	35.245	47.890	21.486	1.00	24.21
ATOM 797 N THR 906	36.042	49.674	20.361	1.00	26.02
ATOM 799 CA THR 906	37.140	49.945	21.283	1.00	29.46
ATOM 800 CB THR 906	38.514	49.768	20.574	1.00	26.67
ATOM 801 OG1 THR 906	38.635	50.739	19.526	1.00	29.06
ATOM 803 CG2 THR 906	38.648	48.363	20.001	1.00	23.13
ATOM 804 C THR 906	37.130	51.346	21.928	1.00	30.07
ATOM 805 O THR 906	37.642	51.522	23.036	1.00	29.29
ATOM 806 N LYS 907	36.582	52.332	21.228	1.00	32.81
ATOM 808 CA LYS 907	36.554	53.686	21.745	1.00	39.38
ATOM 809 CB LYS 907	35.982	54.637	20.701	1.00	41.03
ATOM 810 CG LYS 907	34.536	54.432	20.386	1.00	48.86
ATOM 811 CD LYS 907	34.071	55.528	19.427	1.00	57.25
ATOM 812 CE LYS 907	33.996	56.878	20.143	1.00	63.62
ATOM 813 NZ LYS 907	33.688	58.001	19.213	1.00	68.81
ATOM 817 C LYS 907	35.796	53.779	23.070	1.00	44.43
ATOM 818 O LYS 907	35.094	52.867	23.442	1.00	44.52
ATOM 819 N PRO 908	36.034	54.838	23.857	1.00	49.18
ATOM 820 CD PRO 908	37.147	55.794	23.712	1.00	50.93
ATOM 821 CA PRO 908	35.358	55.022	25.149	1.00	46.86
ATOM 822 CB PRO 908	35.963	56.324	25.647	1.00	49.68
ATOM 823 CG PRO 908	37.387	56.216	25.143	1.00	51.43
ATOM 824 C PRO 908	33.852	55.145	25.036	1.00	44.06
ATOM 825 O PRO 908	33.345	55.600	24.008	1.00	44.40
ATOM 826 N GLY 909	33.154	54.772	26.110	1.00	41.44
ATOM 828 CA GLY 909	31.698	54.842	26.135	1.00	37.38
ATOM 829 C GLY 909	30.999	53.502	26.035	1.00	38.26
ATOM 830 O GLY 909	29.778	53.439	25.751	1.00	40.07
ATOM 831 N GLY 910	31.753	52.424	26.264	1.00	36.39
ATOM 833 CA GLY 910	31.178	51.087	26.190	1.00	34.35
ATOM 834 C GLY 910	32.180	49.961	26.360	1.00	31.85
ATOM 835 O GLY 910	33.394	50.235	26.528	1.00	27.95
ATOM 836 N PRO 911	31.710	48.686	26.319	1.00	27.95
ATOM 837 CD PRO 911	30.280	48.339	26.197	1.00	28.51
ATOM 838 CA PRO 911	32.511	47.463	26.467	1.00	25.21
ATOM 839 CB PRO 911	31.438	46.393	26.724	1.00	27.44
ATOM 840 CG PRO 911	30.315	46.840	25.891	1.00	22.45

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## FIG. 7(17)

ATOM	841	C	PRO	911	33.340	47.118	25.234	1.00	22.33
ATOM	842	O	PRO	911	32.903	47.366	24.124	1.00	23.57
ATOM	843	N	LEU	912	34.548	46.581	25.430	1.00	22.75
ATOM	845	CA	LEU	912	35.412	46.177	24.308	1.00	23.22
ATOM	846	CB	LEU	912	36.778	45.685	24.812	1.00	23.67
ATOM	847	CG	LEU	912	38.095	45.759	24.005	1.00	24.34
ATOM	848	CD1	LEU	912	38.988	44.618	24.490	1.00	20.11
ATOM	849	CD2	LEU	912	37.906	45.745	22.477	1.00	12.72
ATOM	850	C	LEU	912	34.692	45.010	23.627	1.00	22.56
ATOM	851	O	LEU	912	34.342	44.029	24.283	1.00	17.69
ATOM	852	N	MET	913	34.417	45.142	22.334	1.00	24.19
ATOM	854	CA	MET	913	33.724	44.085	21.617	1.00	21.51
ATOM	855	CB	MET	913	32.264	44.456	21.429	1.00	22.09
ATOM	856	CG	MET	913	31.489	44.461	22.728	1.00	22.26
ATOM	857	SD	MET	913	29.829	45.009	22.484	1.00	24.17
ATOM	858	CE	MET	913	30.127	46.676	22.205	1.00	20.40
ATOM	859	C	MET	913	34.386	43.768	20.295	1.00	20.42
ATOM	860	O	MET	913	34.701	44.657	19.519	1.00	21.08
ATOM	861	N	VAL	914	34.703	42.491	20.102	1.00	23.72
ATOM	863	CA	VAL	914	35.354	42.001	18.891	1.00	20.24
ATOM	864	CB	VAL	914	36.614	41.170	19.232	1.00	16.92
ATOM	865	CG1	VAL	914	37.254	40.637	17.958	1.00	19.36
ATOM	866	CG2	VAL	914	37.629	42.055	19.972	1.00	13.30
ATOM	867	C	VAL	914	34.296	41.210	18.132	1.00	19.70
ATOM	868	O	VAL	914	33.836	40.191	18.587	1.00	26.45
ATOM	869	N	ILE	915	33.844	41.775	17.026	1.00	19.86
ATOM	871	CA	ILE	915	32.806	41.212	16.179	1.00	20.42
ATOM	872	CB	ILE	915	32.034	42.384	15.455	1.00	18.44
ATOM	873	CG2	ILE	915	30.721	41.909	14.869	1.00	12.35
ATOM	874	CG1	ILE	915	31.756	43.531	16.426	1.00	17.60
ATOM	875	CD1	ILE	915	31.358	44.822	15.735	1.00	15.14
ATOM	876	C	ILE	915	33.457	40.287	15.115	1.00	23.98
ATOM	877	O	ILE	915	34.361	40.722	14.373	1.00	23.30
ATOM	878	N	VAL	916	33.054	39.011	15.075	1.00	20.08
ATOM	880	CA	VAL	916	33.594	38.089	14.077	1.00	17.64
ATOM	881	CB	VAL	916	34.543	37.003	14.680	1.00	9.09
ATOM	882	CG1	VAL	916	35.703	37.685	15.350	1.00	5.05
ATOM	883	CG2	VAL	916	33.817	36.126	15.678	1.00	10.26
ATOM	884	C	VAL	916	32.422	37.486	13.342	1.00	17.74
ATOM	885	O	VAL	916	31.275	37.790	13.664	1.00	20.02
ATOM	886	N	GLU	917	32.684	36.702	12.303	1.00	14.74
ATOM	888	CA	GLU	917	31.589	36.073	11.577	1.00	13.03
ATOM	889	CB	GLU	917	32.120	35.409	10.332	1.00	14.06

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## FIG. 7(18)

ATOM	890	CG	GLU	917	32.946	36.348	9.464	1.00	24.11
ATOM	891	CD	GLU	917	33.543	35.651	8.258	1.00	26.52
ATOM	892	OE1	GLU	917	33.060	35.904	7.139	1.00	27.67
ATOM	893	OE2	GLU	917	34.480	34.841	8.425	1.00	28.39
ATOM	894	C	GLU	917	30.853	35.051	12.434	1.00	14.78
ATOM	895	O	GLU	917	31.445	34.344	13.234	1.00	14.35
ATOM	896	N	PHE	918	29.557	34.958	12.229	1.00	19.12
ATOM	898	CA	PHE	918	28.688	34.042	12.966	1.00	18.07
ATOM	899	CB	PHE	918	27.334	34.721	13.168	1.00	18.48
ATOM	900	CG	PHE	918	26.275	33.840	13.748	1.00	17.83
ATOM	901	CD1	PHE	918	26.328	33.456	15.081	1.00	18.65
ATOM	902	CD2	PHE	918	25.213	33.400	12.953	1.00	21.10
ATOM	903	CE1	PHE	918	25.336	32.639	15.613	1.00	18.12
ATOM	904	CE2	PHE	918	24.210	32.580	13.473	1.00	14.29
ATOM	905	CZ	PHE	918	24.274	32.201	14.799	1.00	17.78
ATOM	906	C	PHE	918	28.487	32.805	12.113	1.00	18.83
ATOM	907	O	PHE	918	28.081	32.917	10.964	1.00	11.61
ATOM	908	N	CYS	919	28.761	31.635	12.676	1.00	19.49
ATOM	910	CA	CYS	919	28.590	30.372	11.947	1.00	19.00
ATOM	911	CB	CYS	919	29.855	29.566	12.069	1.00	16.78
ATOM	912	SG	CYS	919	31.225	30.428	11.325	1.00	16.84
ATOM	913	C	CYS	919	27.383	29.659	12.556	1.00	21.18
ATOM	914	O	CYS	919	27.474	29.135	13.676	1.00	20.69
ATOM	915	N	LYS	920	26.269	29.653	11.818	1.00	18.06
ATOM	917	CA	LYS	920	24.998	29.130	12.318	1.00	28.13
ATOM	918	CB	LYS	920	23.799	29.581	11.459	1.00	25.17
ATOM	919	CG	LYS	920	23.595	28.799	10.207	1.00	33.78
ATOM	920	CD	LYS	920	22.658	29.509	9.250	1.00	40.32
ATOM	921	CE	LYS	920	21.261	29.706	9.829	1.00	51.94
ATOM	922	NZ	LYS	920	20.343	30.396	8.845	1.00	56.09
ATOM	926	C	LYS	920	24.813	27.679	12.700	1.00	28.53
ATOM	927	O	LYS	920	24.020	27.405	13.592	1.00	31.57
ATOM	928	N	PHE	921	25.533	26.757	12.078	1.00	24.89
ATOM	930	CA	PHE	921	25.328	25.362	12.409	1.00	21.12
ATOM	931	CB	PHE	921	25.497	24.518	11.171	1.00	20.75
ATOM	932	CG	PHE	921	24.588	24.917	10.084	1.00	22.95
ATOM	933	CD1	PHE	921	23.224	24.734	10.219	1.00	27.55
ATOM	934	CD2	PHE	921	25.077	25.564	8.975	1.00	29.40
ATOM	935	CE1	PHE	921	22.362	25.205	9.269	1.00	35.42
ATOM	936	CE2	PHE	921	24.237	26.041	8.013	1.00	32.24
ATOM	937	CZ	PHE	921	22.869	25.870	8.154	1.00	38.81
ATOM	938	C	PHE	921	26.158	24.823	13.535	1.00	21.23
ATOM	939	O	PHE	921	26.002	23.664	13.900	1.00	22.74

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## FIG. 7(19)

ATOM	940	N	GLY	922	27.047	25.659	14.065	1.00	18.39
ATOM	942	CA	GLY	922	27.906	25.257	15.172	1.00	17.62
ATOM	943	C	GLY	922	29.115	24.455	14.759	1.00	18.42
ATOM	944	O	GLY	922	29.331	24.230	13.581	1.00	20.81
ATOM	945	N	ASN	923	29.903	24.011	15.729	1.00	22.93
ATOM	947	CA	ASN	923	31.092	23.223	15.430	1.00	24.85
ATOM	948	CB	ASN	923	31.867	22.837	16.705	1.00	29.68
ATOM	949	CG	ASN	923	31.212	21.710	17.493	1.00	39.14
ATOM	950	OD1	ASN	923	31.252	20.550	17.087	1.00	41.11
ATOM	951	ND2	ASN	923	30.662	22.038	18.660	1.00	35.87
ATOM	954	C	ASN	923	30.818	22.019	14.523	1.00	21.09
ATOM	955	O	ASN	923	29.685	21.566	14.370	1.00	20.59
ATOM	956	N	LEU	924	31.867	21.523	13.896	1.00	21.13
ATOM	958	CA	LEU	924	31.740	20.431	12.957	1.00	22.85
ATOM	959	CB	LEU	924	33.019	20.377	12.126	1.00	23.67
ATOM	960	CG	LEU	924	33.019	19.462	10.920	1.00	17.22
ATOM	961	CD1	LEU	924	31.776	19.699	10.125	1.00	18.21
ATOM	962	CD2	LEU	924	34.268	19.729	10.095	1.00	23.82
ATOM	963	C	LEU	924	31.414	19.062	13.558	1.00	22.65
ATOM	964	O	LEU	924	30.601	18.326	13.013	1.00	26.13
ATOM	965	N	SER	925	31.035	18.742	14.687	1.00	20.06
ATOM	967	CA	SER	925	31.853	17.463	15.383	1.00	25.99
ATOM	968	CB	SER	925	32.741	17.400	16.623	1.00	27.28
ATOM	969	OG	SER	925	32.426	16.272	17.416	1.00	32.86
ATOM	971	C	SER	925	30.432	17.217	15.812	1.00	26.73
ATOM	972	O	SER	925	29.863	16.148	15.552	1.00	30.93
ATOM	973	N	THR	926	29.892	18.190	16.534	1.00	24.48
ATOM	975	CA	THR	926	28.535	18.129	16.996	1.00	19.27
ATOM	976	CB	THR	926	28.258	19.336	17.901	1.00	16.05
ATOM	977	OG1	THR	926	29.230	19.374	18.951	1.00	18.42
ATOM	979	CG2	THR	926	26.927	19.216	18.550	1.00	13.93
ATOM	980	C	THR	926	27.610	18.048	15.758	1.00	20.47
ATOM	981	O	THR	926	26.654	17.258	15.711	1.00	25.12
ATOM	982	N	TYR	927	27.961	18.760	14.701	1.00	18.97
ATOM	984	CA	TYR	927	27.128	18.715	13.515	1.00	20.97
ATOM	985	CB	TYR	927	27.597	19.720	12.464	1.00	18.52
ATOM	986	CG	TYR	927	26.708	19.683	11.230	1.00	18.69
ATOM	987	CD1	TYR	927	25.391	20.196	11.266	1.00	14.64
ATOM	988	CE1	TYR	927	24.567	20.173	10.125	1.00	13.73
ATOM	989	CD2	TYR	927	27.173	19.138	10.031	1.00	22.28
ATOM	990	CE2	TYR	927	26.347	19.104	8.879	1.00	24.92
ATOM	991	CZ	TYR	927	25.058	19.626	8.944	1.00	16.40
ATOM	992	OH	TYR	927	24.285	19.600	7.819	1.00	23.87

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## FIG. 7(20)

ATOM 994 C TYR 927	27.118	17.343	12.855	1.00	23.85
ATOM 995 O TYR 927	26.078	16.860	12.428	1.00	24.11
ATOM 996 N LEU 928	28.313	16.793	12.665	1.00	28.91
ATOM 998 CA LEU 928	28.513	15.495	12.020	1.00	31.09
ATOM 999 CB LEU 928	30.017	15.192	11.863	1.00	27.50
ATOM 1000 CG LEU 928	30.813	16.159	10.953	1.00	24.21
ATOM 1001 CD1 LEU 928	32.302	15.880	11.065	1.00	24.38
ATOM 1002 CD2 LEU 928	30.343	16.097	9.514	1.00	12.63
ATOM 1003 C LEU 928	27.801	14.369	12.747	1.00	31.00
ATOM 1004 O LEU 928	27.164	13.540	12.117	1.00	31.53
ATOM 1005 N ARG 929	27.883	14.351	14.067	1.00	34.05
ATOM 1007 CA ARG 929	27.193	13.316	14.833	1.00	40.50
ATOM 1008 CB ARG 929	27.406	13.552	16.325	1.00	41.71
ATOM 1009 CG ARG 929	28.358	12.605	16.969	1.00	40.42
ATOM 1010 CD ARG 929	29.253	13.359	17.908	1.00	49.36
ATOM 1011 NE ARG 929	28.521	13.947	19.020	1.00	62.28
ATOM 1013 CZ ARG 929	28.946	14.985	19.749	1.00	65.86
ATOM 1014 NH1 ARG 929	28.178	15.432	20.753	1.00	66.98
ATOM 1017 NH2 ARG 929	30.122	15.573	19.492	1.00	58.39
ATOM 1020 C ARG 929	25.678	13.304	14.529	1.00	42.76
ATOM 1021 O ARG 929	25.075	12.234	14.370	1.00	44.84
ATOM 1022 N SER 930	25.089	14.498	14.412	1.00	41.42
ATOM 1024 CA SER 930	23.663	14.677	14.150	1.00	37.04
ATOM 1025 CB SER 930	23.324	16.151	14.250	1.00	38.80
ATOM 1026 OG SER 930	23.662	16.816	13.041	1.00	37.58
ATOM 1028 C SER 930	23.226	14.226	12.774	1.00	38.41
ATOM 1029 O SER 930	22.034	14.254	12.451	1.00	43.98
ATOM 1030 N LYS 931	24.179	13.865	11.936	1.00	37.60
ATOM 1032 CA LYS 931	23.845	13.472	10.590	1.00	38.82
ATOM 1033 CB LYS 931	24.575	14.387	9.606	1.00	43.10
ATOM 1034 CG LYS 931	24.388	15.864	9.884	1.00	45.62
ATOM 1035 CD LYS 931	22.999	16.302	9.487	1.00	49.49
ATOM 1036 CE LYS 931	22.901	16.444	7.985	1.00	46.94
ATOM 1037 NZ LYS 931	21.501	16.690	7.568	1.00	49.54
ATOM 1041 C LYS 931	24.136	12.011	10.264	1.00	39.02
ATOM 1042 O LYS 931	23.991	11.615	9.111	1.00	42.79
ATOM 1043 N ARG 932	24.522	11.199	11.247	1.00	37.44
ATOM 1045 CA ARG 932	24.793	9.776	10.971	1.00	38.33
ATOM 1046 CB ARG 932	25.149	9.020	12.244	1.00	33.55
ATOM 1047 CG ARG 932	26.456	9.461	12.798	1.00	33.92
ATOM 1048 CD ARG 932	26.812	8.729	14.043	1.00	35.88
ATOM 1049 NE ARG 932	28.223	8.929	14.368	1.00	43.26
ATOM 1051 CZ ARG 932	28.720	8.909	15.604	1.00	45.56

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## FIG. 7(21)

ATOM 1052 NH1 ARG 932	30.018	9.098	15.809	1.00	47.32
ATOM 1055 NH2 ARG 932	27.916	8.725	16.645	1.00	53.04
ATOM 1058 C ARG 932	23.621	9.087	10.273	1.00	41.54
ATOM 1059 O ARG 932	23.821	8.135	9.532	1.00	41.31
ATOM 1060 N ASN 933	22.412	9.582	10.536	1.00	44.37
ATOM 1062 CA ASN 933	21.181	9.069	9.956	1.00	47.14
ATOM 1063 CB ASN 933	19.974	9.453	10.824	1.00	54.55
ATOM 1064 CG ASN 933	19.783	8.545	12.050	1.00	57.14
ATOM 1065 OD1 ASN 933	20.622	7.693	12.369	1.00	54.11
ATOM 1066 ND2 ASN 933	18.668	8.752	12.757	1.00	57.76
ATOM 1069 C ASN 933	20.974	9.680	8.589	1.00	49.60
ATOM 1070 O ASN 933	20.260	9.125	7.753	1.00	55.62
ATOM 1071 N GLU 934	21.494	10.888	8.403	1.00	52.11
ATOM 1073 CA GLU 934	21.365	11.580	7.122	1.00	52.39
ATOM 1074 CB GLU 934	20.859	13.007	7.323	1.00	56.14
ATOM 1075 CG GLU 934	19.434	13.095	7.822	1.00	59.40
ATOM 1076 CD GLU 934	19.332	13.686	9.211	1.00	63.97
ATOM 1077 OE1 GLU 934	18.427	13.250	9.953	1.00	69.17
ATOM 1078 OE2 GLU 934	20.138	14.580	9.563	1.00	64.27
ATOM 1079 C GLU 934	22.677	11.593	6.332	1.00	50.45
ATOM 1080 O GLU 934	23.188	12.663	5.961	1.00	50.70
ATOM 1081 N PHE 935	23.205	10.396	6.070	1.00	46.25
ATOM 1083 CA PHE 935	24.440	10.225	5.325	1.00	41.20
ATOM 1084 CB PHE 935	25.638	10.121	6.268	1.00	40.97
ATOM 1085 CG PHE 935	26.923	9.800	5.555	1.00	39.81
ATOM 1086 CD1 PHE 935	27.327	8.478	5.378	1.00	34.65
ATOM 1087 CD2 PHE 935	27.676	10.815	4.970	1.00	33.02
ATOM 1088 CE1 PHE 935	28.455	8.180	4.617	1.00	32.30
ATOM 1089 CE2 PHE 935	28.793	10.515	4.218	1.00	29.96
ATOM 1090 CZ PHE 935	29.181	9.201	4.037	1.00	29.08
ATOM 1091 C PHE 935	24.474	9.006	4.412	1.00	40.49
ATOM 1092 O PHE 935	24.394	7.871	4.865	1.00	40.47
ATOM 1093 N VAL 936	24.694	9.237	3.133	1.00	38.66
ATOM 1095 CA VAL 936	24.809	8.138	2.208	1.00	43.29
ATOM 1096 CB VAL 936	23.663	8.113	1.221	1.00	40.39
ATOM 1097 CG1 VAL 936	23.739	9.312	0.280	1.00	34.50
ATOM 1098 CG2 VAL 936	23.720	6.841	0.444	1.00	42.47
ATOM 1099 C VAL 936	26.087	8.436	1.438	1.00	49.63
ATOM 1100 O VAL 936	26.322	9.585	1.081	1.00	55.64
ATOM 1101 N PRO 937	26.960	7.433	1.222	1.00	50.29
ATOM 1102 CD PRO 937	26.966	6.087	1.822	1.00	49.69
ATOM 1103 CA PRO 937	28.207	7.669	0.483	1.00	50.65
ATOM 1104 CB PRO 937	28.676	6.260	0.177	1.00	46.68

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## FIG. 7(22)

ATOM 1105 CG PRO 937	28.378	5.582	1.493	1.00	47.42
ATOM 1106 C PRO 937	28.019	8.501	-0.774	1.00	53.83
ATOM 1107 O PRO 937	28.644	9.558	-0.937	1.00	53.64
ATOM 1108 N TYR 938	27.153	8.046	-1.660	1.00	54.91
ATOM 1110 CA TYR 938	26.918	8.803	-2.859	1.00	62.52
ATOM 1111 CB TYR 938	27.580	8.161	-4.080	1.00	67.73
ATOM 1120 C TYR 938	25.443	8.800	-3.059	1.00	67.31
ATOM 1121 O TYR 938	24.722	8.082	-2.361	1.00	66.13
ATOM 1122 N LYS 939	25.027	9.601	-4.038	1.00	75.30
ATOM 1124 CA LYS 939	23.639	9.770	-4.445	1.00	81.21
ATOM 1125 CB LYS 939	23.209	11.254	-4.284	1.00	80.04
ATOM 1126 C LYS 939	23.543	9.331	-5.921	1.00	87.24
ATOM 1127 O LYS 939	24.582	9.384	-6.646	1.00	90.23
ATOM 1129 CB ASP 998	17.986	15.692	3.023	1.00	53.00
ATOM 1130 C ASP 998	20.489	15.723	3.377	1.00	55.33
ATOM 1131 O ASP 998	21.051	16.058	4.426	1.00	56.29
ATOM 1134 N ASP 998	19.408	16.931	1.400	1.00	54.52
ATOM 1136 CA ASP 998	19.279	16.514	2.829	1.00	55.12
ATOM 1137 N PHE 999	20.900	14.687	2.653	1.00	52.90
ATOM 1139 CA PHE 999	21.984	13.834	3.111	1.00	46.86
ATOM 1140 CB PHE 999	21.841	12.420	2.528	1.00	51.05
ATOM 1141 CG PHE 999	20.897	11.537	3.296	1.00	55.62
ATOM 1142 CD1 PHE 999	21.249	10.236	3.606	1.00	56.12
ATOM 1143 CD2 PHE 999	19.671	12.022	3.751	1.00	60.98
ATOM 1144 CE1 PHE 999	20.397	9.422	4.368	1.00	61.93
ATOM 1145 CE2 PHE 999	18.816	11.222	4.509	1.00	61.09
ATOM 1146 CZ PHE 999	19.183	9.917	4.820	1.00	60.64
ATOM 1147 C PHE 999	23.373	14.302	2.837	1.00	41.06
ATOM 1148 O PHE 999	23.632	14.937	1.820	1.00	36.04
ATOM 1149 N LEU 1000	24.238	14.057	3.812	1.00	37.57
ATOM 1151 CA LEU 1000	25.651	14.326	3.652	1.00	36.08
ATOM 1152 CB LEU 1000	26.401	14.306	4.985	1.00	35.67
ATOM 1153 CG LEU 1000	25.923	15.286	6.057	1.00	36.23
ATOM 1154 CD1 LEU 1000	26.941	15.370	7.201	1.00	29.94
ATOM 1155 CD2 LEU 1000	25.707	16.654	5.435	1.00	38.66
ATOM 1156 C LEU 1000	26.089	13.139	2.756	1.00	35.16
ATOM 1157 O LEU 1000	25.330	-12.167	2.569	1.00	32.68
ATOM 1158 N THR 1001	27.292	13.228	2.201	1.00	29.92
ATOM 1160 CA THR 1001	27.803	12.236	1.285	1.00	25.42
ATOM 1161 CB THR 1001	27.396	12.560	-0.178	1.00	30.10



## FIG. 7(23)

ATOM 1162	OG1 THR 1001	28.055	13.771	-0.605	1.00	33.54
ATOM 1164	CG2 THR 1001	25.878	12.741	-0.326	1.00	29.24
ATOM 1165	C THR 1001	29.303	12.388	1.338	1.00	27.68
ATOM 1166	O THR 1001	29.805	13.303	1.985	1.00	28.02
ATOM 1167	N LEU 1002	30.020	11.552	0.592	1.00	26.85
ATOM 1169	CA LEU 1002	31.454	11.636	0.572	1.00	24.39
ATOM 1170	CB LEU 1002	32.044	10.545	-0.298	1.00	22.71
ATOM 1171	CG LEU 1002	32.269	9.304	0.573	1.00	27.80
ATOM 1172	CD1 LEU 1002	32.727	8.142	-0.280	1.00	27.11
ATOM 1173	CD2 LEU 1002	33.295	9.592	1.670	1.00	24.64
ATOM 1174	C LEU 1002	31.908	12.995	0.099	1.00	26.97
ATOM 1175	O LEU 1002	32.967	13.459	0.506	1.00	26.84
ATOM 1176	N GLU 1003	31.063	13.682	-0.666	1.00	27.89
ATOM 1178	CA GLU 1003	31.428	15.000	-1.185	1.00	28.02
ATOM 1179	CB GLU 1003	30.419	15.503	-2.208	1.00	32.50
ATOM 1180	CG GLU 1003	30.988	16.624	-3.077	1.00	37.49
ATOM 1181	CD GLU 1003	31.915	16.121	-4.170	1.00	38.89
ATOM 1182	OE1 GLU 1003	33.065	15.743	-3.886	1.00	43.61
ATOM 1183	OE2 GLU 1003	31.488	16.102	-5.331	1.00	46.97
ATOM 1184	C GLU 1003	31.591	16.044	-0.117	1.00	25.24
ATOM 1185	O GLU 1003	32.485	16.885	-0.211	1.00	26.57
ATOM 1186	N HIS 1004	30.748	15.953	0.913	1.00	23.16
ATOM 1188	CA HIS 1004	30.746	16.884	2.040	1.00	19.58
ATOM 1189	CB HIS 1004	29.508	16.719	2.912	1.00	19.12
ATOM 1190	CG HIS 1004	28.227	17.024	2.208	1.00	23.47
ATOM 1191	CD2 HIS 1004	27.173	17.784	2.570	1.00	23.78
ATOM 1192	ND1 HIS 1004	27.911	16.508	0.964	1.00	27.88
ATOM 1194	CE1 HIS 1004	26.718	16.936	0.596	1.00	20.57
ATOM 1195	NE2 HIS 1004	26.246	17.710	1.554	1.00	23.61
ATOM 1197	C HIS 1004	31.940	16.631	2.885	1.00	21.64
ATOM 1198	O HIS 1004	32.753	17.508	3.075	1.00	25.00
ATOM 1199	N LEU 1005	32.055	15.419	3.394	1.00	23.11
ATOM 1201	CA LEU 1005	33.186	15.072	4.222	1.00	23.79
ATOM 1202	CB LEU 1005	33.131	13.581	4.589	1.00	24.17
ATOM 1203	CG LEU 1005	32.183	13.199	5.743	1.00	27.48
ATOM 1204	CD1 LEU 1005	31.030	14.150	5.821	1.00	25.44
ATOM 1205	CD2 LEU 1005	31.679	11.771	5.627	1.00	22.50
ATOM 1206	C LEU 1005	34.506	15.467	3.558	1.00	20.41
ATOM 1207	O LEU 1005	35.361	16.034	4.206	1.00	21.82
ATOM 1208	N ILE 1006	34.668	15.212	2.264	1.00	19.50

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## FIG. 7(24)

ATOM 1210 CA ILE 1006	35.914	15.589	1.609	1.00	18.77
ATOM 1211 CB ILE 1006	36.128	14.806	0.276	1.00	16.46
ATOM 1212 CG2 ILE 1006	37.602	14.777	-0.103	1.00	12.82
ATOM 1213 CG1 ILE 1006	35.718	13.341	0.441	1.00	20.16
ATOM 1214 CD1 ILE 1006	35.961	12.446	-0.834	1.00	11.88
ATOM 1215 C ILE 1006	35.998	17.136	1.377	1.00	22.88
ATOM 1216 O ILE 1006	37.113	17.730	1.431	1.00	21.25
ATOM 1217 N CYS 1007	34.854	17.788	1.108	1.00	21.47
ATOM 1219 CA CYS 1007	34.860	19.240	0.909	1.00	21.66
ATOM 1220 CB CYS 1007	33.522	19.825	0.431	1.00	24.87
ATOM 1221 SG CYS 1007	33.760	21.544	-0.085	1.00	30.17
ATOM 1222 C CYS 1007	35.247	19.953	2.196	1.00	22.22
ATOM 1223 O CYS 1007	36.024	20.905	2.158	1.00	25.94
ATOM 1224 N TYR 1008	34.691	19.527	3.331	1.00	20.53
ATOM 1226 CA TYR 1008	35.030	20.132	4.617	1.00	17.94
ATOM 1227 CB TYR 1008	34.248	19.493	5.758	1.00	18.61
ATOM 1228 CG TYR 1008	32.753	19.488	5.626	1.00	17.97
ATOM 1229 CD1 TYR 1008	32.019	18.455	6.175	1.00	16.67
ATOM 1230 CE1 TYR 1008	30.641	18.462	6.158	1.00	22.78
ATOM 1231 CD2 TYR 1008	32.059	20.549	5.031	1.00	22.19
ATOM 1232 CE2 TYR 1008	30.646	20.569	5.011	1.00	20.60
ATOM 1233 CZ TYR 1008	29.949	19.513	5.579	1.00	23.22
ATOM 1234 OH TYR 1008	28.574	19.454	5.551	1.00	18.30
ATOM 1236 C TYR 1008	36.537	19.945	4.883	1.00	18.55
ATOM 1237 O TYR 1008	37.217	20.917	5.256	1.00	20.35
ATOM 1238 N SER 1009	37.056	18.726	4.642	1.00	14.74
ATOM 1240 CA SER 1009	38.476	18.409	4.852	1.00	13.39
ATOM 1241 CB SER 1009	38.810	16.962	4.473	1.00	17.24
ATOM 1242 OG SER 1009	38.018	16.001	5.152	1.00	26.04
ATOM 1244 C SER 1009	39.310	19.309	3.985	1.00	16.36
ATOM 1245 O SER 1009	40.317	19.864	4.446	1.00	20.21
ATOM 1246 N PHE 1010	38.953	19.375	2.699	1.00	20.97
ATOM 1248 CA PHE 1010	39.654	20.246	1.742	1.00	23.34
ATOM 1249 CB PHE 1010	38.985	20.126	0.365	1.00	18.83
ATOM 1250 CG PHE 1010	39.605	21.002	-0.685	1.00	17.13
ATOM 1251 CD1 PHE 1010	38.830	21.940	-1.370	1.00	13.94
ATOM 1252 CD2 PHE 1010	40.979	20.918	-0.968	1.00	17.85
ATOM 1253 CE1 PHE 1010	39.410	22.804	-2.339	1.00	16.30
ATOM 1254 CE2 PHE 1010	41.569	21.763	-1.917	1.00	17.15
ATOM 1255 CZ PHE 1010	40.772	22.714	-2.608	1.00	18.02

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## FIG. 7(25)

ATOM	1256	C	PHE	1010	39.688	21.746	2.242	1.00	22.02
ATOM	1257	O	PHE	1010	40.749	22.390	2.298	1.00	23.00
ATOM	1258	N	GLN	1011	38.535	22.271	2.643	1.00	19.25
ATOM	1260	CA	GLN	1011	38.418	23.640	3.159	1.00	19.07
ATOM	1261	CB	GLN	1011	36.980	23.945	3.480	1.00	12.84
ATOM	1262	CG	GLN	1011	36.117	24.005	2.270	1.00	6.53
ATOM	1263	CD	GLN	1011	34.713	24.371	2.659	1.00	18.81
ATOM	1264	OE1	GLN	1011	34.490	25.382	3.347	1.00	21.22
ATOM	1265	NE2	GLN	1011	33.760	23.525	2.302	1.00	26.88
ATOM	1268	C	GLN	1011	39.262	23.894	4.394	1.00	18.28
ATOM	1269	O	GLN	1011	39.840	24.982	4.543	1.00	19.80
ATOM	1270	N	VAL	1012	39.270	22.934	5.319	1.00	11.82
ATOM	1272	CA	VAL	1012	40.110	23.063	6.500	1.00	13.54
ATOM	1273	CB	VAL	1012	39.825	21.936	7.528	1.00	15.67
ATOM	1274	CG1	VAL	1012	40.686	22.107	8.795	1.00	10.56
ATOM	1275	CG2	VAL	1012	38.370	21.948	7.901	1.00	14.92
ATOM	1276	C	VAL	1012	41.618	23.068	6.068	1.00	16.72
ATOM	1277	O	VAL	1012	42.448	23.782	6.665	1.00	20.48
ATOM	1278	N	ALA	1013	42.001	22.291	5.051	1.00	15.90
ATOM	1280	CA	ALA	1013	43.401	22.352	4.602	1.00	17.77
ATOM	1281	CB	ALA	1013	43.732	21.206	3.638	1.00	10.59
ATOM	1282	C	ALA	1013	43.685	23.755	3.963	1.00	15.74
ATOM	1283	O	ALA	1013	44.764	24.302	4.139	1.00	17.49
ATOM	1284	N	LYS	1014	42.718	24.342	3.244	1.00	17.18
ATOM	1286	CA	LYS	1014	42.866	25.706	2.665	1.00	15.11
ATOM	1287	CB	LYS	1014	41.557	26.152	2.020	1.00	23.73
ATOM	1288	CG	LYS	1014	41.146	25.474	0.748	1.00	23.57
ATOM	1289	CD	LYS	1014	41.963	26.033	-0.354	1.00	26.38
ATOM	1290	CE	LYS	1014	41.172	25.978	-1.617	1.00	38.71
ATOM	1291	NZ	LYS	1014	42.034	26.404	-2.776	1.00	50.36
ATOM	1295	C	LYS	1014	43.105	26.678	3.823	1.00	11.16
ATOM	1296	O	LYS	1014	44.066	27.452	3.818	1.00	13.85
ATOM	1297	N	GLY	1015	42.210	26.590	4.816	1.00	10.82
ATOM	1299	CA	GLY	1015	42.250	27.403	6.017	1.00	12.48
ATOM	1300	C	GLY	1015	43.584	27.327	6.715	1.00	17.17
ATOM	1301	O	GLY	1015	44.124	28.349	7.130	1.00	19.92
ATOM	1302	N	MET	1016	44.159	26.128	6.763	1.00	17.82
ATOM	1304	CA	MET	1016	45.426	25.927	7.439	1.00	15.78
ATOM	1305	CB	MET	1016	45.516	24.488	7.925	1.00	17.77
ATOM	1306	CG	MET	1016	44.538	24.156	9.057	1.00	15.19
ATOM	1307	SD	MET	1016	44.931	24.991	10.623	1.00	15.49

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## FIG. 7(26)

ATOM 1308	CE MET 1016	46.642	24.894	10.658	1.00	5.63
ATOM 1309	C MET 1016	46.625	26.321	6.618	1.00	14.62
ATOM 1310	O MET 1016	47.680	26.667	7.163	1.00	15.76
ATOM 1311	N GLU 1017	46.487	26.208	5.305	1.00	14.65
ATOM 1313	CA GLU 1017	47.552	26.608	4.384	1.00	21.43
ATOM 1314	CB GLU 1017	47.177	26.195	2.947	1.00	21.43
ATOM 1315	CG GLU 1017	48.162	26.622	1.878	1.00	22.82
ATOM 1316	CD GLU 1017	47.634	26.421	0.436	1.00	27.12
ATOM 1317	OE1 GLU 1017	46.457	26.769	0.141	1.00	24.95
ATOM 1318	OE2 GLU 1017	48.418	25.927	-0.424	1.00	32.93
ATOM 1319	C GLU 1017	47.667	28.145	4.535	1.00	18.38
ATOM 1320	O GLU 1017	48.760	28.668	4.593	1.00	17.43
ATOM 1321	N PHE 1018	46.526	28.839	4.677	1.00	19.09
ATOM 1323	CA PHE 1018	46.509	30.295	4.894	1.00	20.74
ATOM 1324	CB PHE 1018	45.067	30.848	4.870	1.00	27.18
ATOM 1325	CG PHE 1018	44.942	32.338	5.248	1.00	25.91
ATOM 1326	CD1 PHE 1018	44.477	32.718	6.521	1.00	26.19
ATOM 1327	CD2 PHE 1018	45.300	33.345	4.348	1.00	25.16
ATOM 1328	CE1 PHE 1018	44.381	34.059	6.890	1.00	27.10
ATOM 1329	CE2 PHE 1018	45.208	34.708	4.712	1.00	28.34
ATOM 1330	CZ PHE 1018	44.754	35.064	5.982	1.00	26.60
ATOM 1331	C PHE 1018	47.179	30.663	6.216	1.00	18.20
ATOM 1332	O PHE 1018	48.139	31.430	6.228	1.00	15.08
ATOM 1333	N LEU 1019	46.676	30.122	7.328	1.00	16.94
ATOM 1335	CA LEU 1019	47.259	30.414	8.654	1.00	19.44
ATOM 1336	CB LEU 1019	46.673	29.533	9.754	1.00	22.88
ATOM 1337	CG LEU 1019	45.238	29.773	10.165	1.00	24.41
ATOM 1338	CD1 LEU 1019	44.956	28.916	11.388	1.00	24.01
ATOM 1339	CD2 LEU 1019	45.084	31.277	10.485	1.00	25.61
ATOM 1340	C LEU 1019	48.736	30.173	8.660	1.00	19.44
ATOM 1341	O LEU 1019	49.493	30.896	9.316	1.00	18.98
ATOM 1342	N ALA 1020	49.135	29.076	8.023	1.00	19.45
ATOM 1344	CA ALA 1020	50.545	28.747	7.961	1.00	22.29
ATOM 1345	CB ALA 1020	50.748	27.350	7.397	1.00	21.86
ATOM 1346	C ALA 1020	51.252	29.829	7.115	1.00	26.13
ATOM 1347	O ALA 1020	52.348	30.257	7.471	1.00	25.25
ATOM 1348	N SER 1021	50.600	30.323	6.050	1.00	29.72
ATOM 1350	CA SER 1021	51.194	31.384	5.219	1.00	27.59
ATOM 1351	CB SER 1021	50.289	31.754	4.026	1.00	23.95

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## FIG. 7(27)

ATOM 1352 OG SER 1021	49.252	32.662	4.349	1.00	22.60
ATOM 1354 C SER 1021	51.469	32.614	6.109	1.00	32.83
ATOM 1355 O SER 1021	52.570	33.172	6.073	1.00	36.57
ATOM 1356 N ARG 1022	50.513	32.957	6.981	1.00	31.88
ATOM 1358 CA ARG 1022	50.645	34.093	7.901	1.00	22.64
ATOM 1359 CB ARG 1022	49.294	34.483	8.465	1.00	17.89
ATOM 1360 CG ARG 1022	48.254	34.691	7.420	1.00	17.72
ATOM 1361 CD ARG 1022	48.648	35.816	6.468	1.00	18.00
ATOM 1362 NE ARG 1022	49.714	36.666	6.993	1.00	31.94
ATOM 1364 CZ ARG 1022	49.625	37.980	7.168	1.00	30.72
ATOM 1365 NH1 ARG 1022	50.653	38.644	7.662	1.00	23.85
ATOM 1368 NH2 ARG 1022	48.508	38.620	6.862	1.00	40.00
ATOM 1371 C ARG 1022	51.563	33.787	9.056	1.00	24.84
ATOM 1372 O ARG 1022	51.718	34.612	9.960	1.00	23.27
ATOM 1373 N LYS 1023	52.115	32.576	9.061	1.00	23.84
ATOM 1375 CA LYS 1023	53.039	32.137	10.094	1.00	23.59
ATOM 1376 CB LYS 1023	54.237	33.067	10.196	1.00	22.44
ATOM 1377 C LYS 1023	52.404	31.899	11.456	1.00	25.21
ATOM 1378 O LYS 1023	53.054	32.024	12.504	1.00	28.54
ATOM 1379 N CYS 1024	51.164	31.435	11.411	1.00	20.82
ATOM 1381 CA CYS 1024	50.404	31.114	12.595	1.00	28.12
ATOM 1382 CB CYS 1024	48.982	31.709	12.472	1.00	30.32
ATOM 1383 SG CYS 1024	48.936	33.504	12.847	1.00	33.73
ATOM 1384 C CYS 1024	50.388	29.576	12.729	1.00	32.20
ATOM 1385 O CYS 1024	50.636	28.882	11.756	1.00	38.70
ATOM 1386 N ILE 1025	50.167	29.057	13.934	1.00	30.55
ATOM 1388 CA ILE 1025	50.123	27.619	14.216	1.00	33.60
ATOM 1389 CB ILE 1025	51.406	27.169	14.970	1.00	36.10
ATOM 1390 CG2 ILE 1025	51.223	25.807	15.619	1.00	38.88
ATOM 1391 CG1 ILE 1025	52.585	27.121	13.988	1.00	38.38
ATOM 1392 CD1 ILE 1025	53.913	27.422	14.604	1.00	34.51
ATOM 1393 C ILE 1025	48.891	27.526	15.104	1.00	33.66
ATOM 1394 O ILE 1025	48.751	28.301	16.034	1.00	41.71
ATOM 1395 N HIS 1026	47.958	26.643	14.797	1.00	31.27
ATOM 1397 CA HIS 1026	46.742	26.570	15.589	1.00	27.97
ATOM 1398 CB HIS 1026	45.691	25.745	14.861	1.00	23.43
ATOM 1399 CG HIS 1026	44.283	26.091	15.229	1.00	30.06
ATOM 1400 CD2 HIS 1026	43.342	26.801	14.560	1.00	33.43
ATOM 1401 ND1 HIS 1026	43.680	25.659	16.393	1.00	24.53

## FIG. 7(28)

ATOM 1403	CE1	HIS	1026	42.428	26.085	16.424	1.00	26.31
ATOM 1404	NE2	HIS	1026	42.199	26.781	15.321	1.00	29.05
ATOM 1406	C	HIS	1026	46.901	26.086	17.036	1.00	30.13
ATOM 1407	O	HIS	1026	46.335	26.681	17.955	1.00	37.96
ATOM 1408	N	ARG	1027	47.662	25.024	17.244	1.00	26.58
ATOM 1410	CA	ARG	1027	47.872	24.429	18.583	1.00	31.87
ATOM 1411	CB	ARG	1027	48.235	25.483	19.666	1.00	20.17
ATOM 1412	C	ARG	1027	46.762	23.449	19.055	1.00	31.55
ATOM 1413	O	ARG	1027	47.047	22.477	19.742	1.00	38.11
ATOM 1414	N	ASP	1028	45.528	23.629	18.597	1.00	30.85
ATOM 1416	CA	ASP	1028	44.466	22.698	18.955	1.00	26.34
ATOM 1417	CB	ASP	1028	43.788	23.098	20.248	1.00	32.60
ATOM 1418	CG	ASP	1028	42.847	22.020	20.755	1.00	35.64
ATOM 1419	OD1	ASP	1028	41.692	22.346	21.096	1.00	36.08
ATOM 1420	OD2	ASP	1028	43.267	20.842	20.790	1.00	40.39
ATOM 1421	C	ASP	1028	43.435	22.565	17.841	1.00	26.23
ATOM 1422	O	ASP	1028	42.276	22.926	17.998	1.00	23.40
ATOM 1423	N	LEU	1029	43.884	22.034	16.708	1.00	24.88
ATOM 1425	CA	LEU	1029	43.053	21.842	15.533	1.00	23.16
ATOM 1426	CB	LEU	1029	43.958	21.772	14.299	1.00	18.78
ATOM 1427	CG	LEU	1029	43.221	21.714	12.965	1.00	20.21
ATOM 1428	CD1	LEU	1029	42.349	22.952	12.812	1.00	15.13
ATOM 1429	CD2	LEU	1029	44.249	21.601	11.827	1.00	22.91
ATOM 1430	C	LEU	1029	42.237	20.562	15.700	1.00	25.25
ATOM 1431	O	LEU	1029	42.765	19.473	15.591	1.00	30.47
ATOM 1432	N	ALA	1030	40.949	20.703	15.957	1.00	25.99
ATOM 1434	CA	ALA	1030	40.062	19.574	16.182	1.00	25.19
ATOM 1435	CB	ALA	1030	39.872	19.387	17.679	1.00	24.55
ATOM 1436	C	ALA	1030	38.761	20.007	15.558	1.00	27.35
ATOM 1437	O	ALA	1030	38.611	21.202	15.302	1.00	33.46
ATOM 1438	N	ALA	1031	37.797	19.094	15.379	1.00	25.19
ATOM 1440	CA	ALA	1031	36.508	19.451	14.752	1.00	22.16
ATOM 1441	CB	ALA	1031	35.772	18.210	14.270	1.00	21.71
ATOM 1442	C	ALA	1031	35.551	20.353	15.536	1.00	20.96
ATOM 1443	O	ALA	1031	34.639	20.950	14.944	1.00	21.36
ATOM 1444	N	ARG	1032	35.712	20.388	16.859	1.00	22.49
ATOM 1446	CA	ARG	1032	34.898	21.246	17.736	1.00	27.01
ATOM 1447	CB	ARG	1032	35.157	20.945	19.220	1.00	25.22
ATOM 1448	CG	ARG	1032	36.534	21.451	19.707	1.00	34.44
ATOM 1449	CD	ARG	1032	37.150	20.503	20.770	1.00	46.39

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## FIG. 7(29)

ATOM 1450 NE ARG 1032	38.554	20.752	21.158	1.00	41.28
ATOM 1452 CZ ARG 1032	39.464	19.799	21.352	1.00	32.28
ATOM 1453 NH1 ARG 1032	40.677	20.129	21.709	1.00	27.74
ATOM 1456 NH2 ARG 1032	39.178	18.524	21.148	1.00	31.24
ATOM 1459 C ARG 1032	35.296	22.708	17.482	1.00	25.91
ATOM 1460 O ARG 1032	34.601	23.605	17.935	1.00	30.23
ATOM 1461 N ASN 1033	36.451	22.911	16.840	1.00	20.90
ATOM 1463 CA ASN 1033	37.008	24.222	16.495	1.00	15.77
ATOM 1464 CB ASN 1033	38.497	24.290	16.813	1.00	18.29
ATOM 1465 CG ASN 1033	38.760	24.160	18.254	1.00	20.60
ATOM 1466 OD1 ASN 1033	37.891	24.445	19.067	1.00	29.84
ATOM 1467 ND2 ASN 1033	39.929	23.677	18.601	1.00	18.08
ATOM 1470 C ASN 1033	36.839	24.535	15.019	1.00	19.29
ATOM 1471 O ASN 1033	37.619	25.303	14.450	1.00	17.18
ATOM 1472 N ILE 1034	35.934	23.822	14.366	1.00	17.56
ATOM 1474 CA ILE 1034	35.631	24.092	12.972	1.00	17.92
ATOM 1475 CB ILE 1034	35.813	22.868	12.091	1.00	15.66
ATOM 1476 CG2 ILE 1034	35.364	23.192	10.647	1.00	12.61
ATOM 1477 CG1 ILE 1034	37.247	22.349	12.221	1.00	10.08
ATOM 1478 CD1 ILE 1034	38.312	23.384	11.994	1.00	18.10
ATOM 1479 C ILE 1034	34.147	24.381	13.075	1.00	21.87
ATOM 1480 O ILE 1034	33.410	23.592	13.669	1.00	26.72
ATOM 1481 N LEU 1035	33.711	25.524	12.575	1.00	21.91
ATOM 1483 CA LEU 1035	32.311	25.883	12.670	1.00	19.45
ATOM 1484 CB LEU 1035	32.190	27.310	13.181	1.00	18.73
ATOM 1485 CG LEU 1035	32.102	27.454	14.691	1.00	21.53
ATOM 1486 CD1 LEU 1035	33.019	26.518	15.456	1.00	8.66
ATOM 1487 CD2 LEU 1035	32.391	28.881	15.016	1.00	19.34
ATOM 1488 C LEU 1035	31.700	25.764	11.316	1.00	20.15
ATOM 1489 O LEU 1035	32.377	25.977	10.310	1.00	21.51
ATOM 1490 N LEU 1036	30.429	25.390	11.275	1.00	24.13
ATOM 1492 CA LEU 1036	29.745	25.237	10.006	1.00	26.96
ATOM 1493 CB LEU 1036	29.027	23.882	9.909	1.00	20.57
ATOM 1494 CG LEU 1036	28.149	23.631	8.681	1.00	17.23
ATOM 1495 CD1 LEU 1036	28.877	23.617	7.360	1.00	7.53
ATOM 1496 CD2 LEU 1036	27.566	22.306	8.900	1.00	18.85
ATOM 1497 C LEU 1036	28.827	26.432	9.755	1.00	31.45
ATOM 1498 O LEU 1036	27.953	26.794	10.557	1.00	29.93
ATOM 1499 N SER 1037	29.094	27.061	8.628	1.00	34.52
ATOM 1501 CA SER 1037	28.410	28.248	8.215	1.00	37.11

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## FIG. 7(30)

ATOM 1502 CB SER 1037	29.448	29.220	7.632	1.00	41.11
ATOM 1503 OG SER 1037	28.879	30.439	7.193	1.00	44.80
ATOM 1505 C SER 1037	27.367	27.890	7.209	1.00	39.39
ATOM 1506 O SER 1037	27.045	26.735	7.024	1.00	42.14
ATOM 1507 N GLU 1038	26.884	28.912	6.531	1.00	44.94
ATOM 1509 CA GLU 1038	25.845	28.806	5.534	1.00	50.37
ATOM 1510 CB GLU 1038	25.685	30.152	4.792	1.00	56.15
ATOM 1511 CG GLU 1038	25.599	31.391	5.676	1.00	55.19
ATOM 1512 CD GLU 1038	24.518	31.270	6.708	1.00	59.42
ATOM 1513 OE1 GLU 1038	23.464	30.637	6.419	1.00	58.62
ATOM 1514 OE2 GLU 1038	24.736	31.806	7.816	1.00	63.52
ATOM 1515 C GLU 1038	25.954	27.672	4.518	1.00	51.35
ATOM 1516 O GLU 1038	25.619	26.521	4.816	1.00	57.04
ATOM 1517 N LYS 1039	26.414	27.997	3.317	1.00	46.28
ATOM 1519 CA LYS 1039	26.467	27.021	2.251	1.00	43.05
ATOM 1520 CB LYS 1039	26.455	27.729	0.898	1.00	41.05
ATOM 1521 C LYS 1039	27.689	26.155	2.401	1.00	44.31
ATOM 1522 O LYS 1039	28.687	26.358	1.697	1.00	50.06
ATOM 1523 N ASN 1040	27.611	25.210	3.339	1.00	37.02
ATOM 1525 CA ASN 1040	28.701	24.283	3.630	1.00	32.65
ATOM 1526 CB ASN 1040	28.647	23.041	2.761	1.00	31.69
ATOM 1527 CG ASN 1040	27.641	22.061	3.267	1.00	31.29
ATOM 1528 OD1 ASN 1040	26.740	21.693	2.553	1.00	38.80
ATOM 1529 ND2 ASN 1040	27.749	21.680	4.530	1.00	36.05
ATOM 1532 C ASN 1040	30.096	24.844	3.656	1.00	28.45
ATOM 1533 O ASN 1040	31.079	24.162	3.300	1.00	26.00
ATOM 1534 N VAL 1041	30.174	26.101	4.073	1.00	23.77
ATOM 1536 CA VAL 1041	31.447	26.739	4.207	1.00	16.56
ATOM 1537 CB VAL 1041	31.382	28.274	3.940	1.00	16.16
ATOM 1538 CG1 VAL 1041	32.709	28.948	4.315	1.00	8.57
ATOM 1539 CG2 VAL 1041	31.124	28.509	2.470	1.00	6.79
ATOM 1540 C VAL 1041	31.726	26.382	5.646	1.00	15.50
ATOM 1541 O VAL 1041	30.825	26.333	6.485	1.00	9.73
ATOM 1542 N VAL 1042	32.967	26.022	5.883	1.00	18.82
ATOM 1544 CA VAL 1042	33.431	25.607	7.185	1.00	19.76
ATOM 1545 CB VAL 1042	33.907	24.110	7.051	1.00	22.19
ATOM 1546 CG1 VAL 1042	35.439	23.993	7.041	1.00	18.66
ATOM 1547 CG2 VAL 1042	33.247	23.242	8.100	1.00	22.95
ATOM 1548 C VAL 1042	34.580	26.607	7.483	1.00	20.50
ATOM 1549 O VAL 1042	35.348	26.960	6.575	1.00	17.75



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## FIG. 7(31)

ATOM 1550 N LYS 1043	34.675	27.082	8.726	1.00	18.30
ATOM 1552 CA LYS 1043	35.679	28.070	9.103	1.00	17.43
ATOM 1553 CB LYS 1043	34.977	29.420	9.277	1.00	17.68
ATOM 1554 CG LYS 1043	34.202	29.845	8.031	1.00	19.19
ATOM 1555 CD LYS 1043	33.560	31.228	8.186	1.00	26.86
ATOM 1556 CE LYS 1043	33.270	31.885	6.820	1.00	18.32
ATOM 1557 NZ LYS 1043	34.353	32.806	6.425	1.00	22.63
ATOM 1561 C LYS 1043	36.373	27.687	10.399	1.00	18.35
ATOM 1562 O LYS 1043	35.709	27.235	11.330	1.00	17.37
ATOM 1563 N ILE 1044	37.692	27.880	10.461	1.00	17.47
ATOM 1565 CA ILE 1044	38.504	27.558	11.645	1.00	21.49
ATOM 1566 CB ILE 1044	40.010	27.390	11.267	1.00	20.48
ATOM 1567 CG2 ILE 1044	40.896	27.250	12.502	1.00	15.75
ATOM 1568 CG1 ILE 1044	40.221	26.237	10.300	1.00	14.66
ATOM 1569 CD1 ILE 1044	41.584	26.344	9.669	1.00	12.76
ATOM 1570 C ILE 1044	38.432	28.735	12.626	1.00	30.73
ATOM 1571 O ILE 1044	38.370	29.888	12.207	1.00	31.68
ATOM 1572 N CYS 1045	38.454	28.436	13.918	1.00	38.50
ATOM 1574 CA CYS 1045	38.437	29.444	14.968	1.00	48.73
ATOM 1575 CB CYS 1045	37.027	29.586	15.558	1.00	50.35
ATOM 1576 SG CYS 1045	36.259	28.069	16.173	1.00	59.69
ATOM 1577 C CYS 1045	39.473	29.041	16.033	1.00	54.63
ATOM 1578 O CYS 1045	39.981	27.912	15.986	1.00	54.88
ATOM 1579 N ASP 1046	39.811	29.954	16.956	1.00	64.20
ATOM 1581 CA ASP 1046	40.816	29.700	18.021	1.00	69.98
ATOM 1582 CB ASP 1046	40.454	28.407	18.788	1.00	72.94
ATOM 1583 CG ASP 1046	41.338	28.165	20.009	1.00	75.40
ATOM 1584 OD1 ASP 1046	40.930	28.584	21.110	1.00	77.66
ATOM 1585 OD2 ASP 1046	42.428	27.547	19.878	1.00	75.18
ATOM 1586 C ASP 1046	42.219	29.580	17.354	1.00	74.21
ATOM 1587 O ASP 1046	43.183	29.036	17.940	1.00	74.94
ATOM 1588 N PHE 1047	42.307	30.205	16.171	1.00	75.46
ATOM 1590 CA PHE 1047	43.462	30.212	15.245	1.00	71.53
ATOM 1591 CB PHE 1047	42.919	30.267	13.790	1.00	72.10
ATOM 1592 CG PHE 1047	41.906	31.381	13.526	1.00	71.34
ATOM 1593 CD1 PHE 1047	42.139	32.327	12.526	1.00	74.26
ATOM 1594 CD2 PHE 1047	40.747	31.501	14.284	1.00	69.46
ATOM 1595 CE1 PHE 1047	41.242	33.367	12.293	1.00	70.87
ATOM 1596 CE2 PHE 1047	39.847	32.533	14.066	1.00	67.97
ATOM 1597 CZ PHE 1047	40.096	33.467	13.068	1.00	71.41

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## FIG. 7(32)

ATOM 1598 C PHE 1047	44.681	31.163	15.426	1.00	67.78
ATOM 1599 O PHE 1047	44.507	32.345	15.797	1.00	63.26
ATOM 1601 CB ASP 1064	29.579	17.003	25.123	1.00	69.86
ATOM 1602 CG ASP 1064	30.534	16.464	24.050	1.00	69.93
ATOM 1603 OD1 ASP 1064	31.028	15.321	24.179	1.00	71.35
ATOM 1604 OD2 ASP 1064	30.776	17.189	23.063	1.00	71.45
ATOM 1605 C ASP 1064	31.511	17.821	26.539	1.00	64.90
ATOM 1606 O ASP 1064	31.512	19.029	26.788	1.00	64.09
ATOM 1609 N ASP 1064	29.229	17.550	27.534	1.00	67.30
ATOM 1611 CA ASP 1064	30.204	17.019	26.533	1.00	67.58
ATOM 1612 N ALA 1065	32.617	17.135	26.278	1.00	61.87
ATOM 1614 CA ALA 1065	33.932	17.759	26.244	1.00	58.06
ATOM 1615 CB ALA 1065	34.479	17.935	27.650	1.00	56.61
ATOM 1616 C ALA 1065	34.888	16.915	25.397	1.00	57.97
ATOM 1617 O ALA 1065	34.491	15.906	24.788	1.00	56.86
ATOM 1618 N ARG 1066	36.155	17.313	25.400	1.00	54.64
ATOM 1620 CA ARG 1066	37.182	16.664	24.607	1.00	50.99
ATOM 1621 CB ARG 1066	37.538	17.539	23.393	1.00	49.53
ATOM 1622 CG ARG 1066	36.459	17.608	22.335	1.00	52.76
ATOM 1623 CD ARG 1066	36.866	16.805	21.125	1.00	57.63
ATOM 1624 NE ARG 1066	35.847	16.645	20.093	1.00	57.02
ATOM 1626 CZ ARG 1066	35.976	17.033	18.824	1.00	55.63
ATOM 1627 NH1 ARG 1066	34.984	16.797	17.995	1.00	57.63
ATOM 1630 NH2 ARG 1066	37.046	17.691	18.385	1.00	40.52
ATOM 1633 C ARG 1066	38.428	16.513	25.427	1.00	49.01
ATOM 1634 O ARG 1066	38.652	17.274	26.364	1.00	46.29
ATOM 1635 N LEU 1067	39.251	15.546	25.041	1.00	46.48
ATOM 1637 CA LEU 1067	40.510	15.320	25.709	1.00	45.62
ATOM 1638 CB LEU 1067	40.703	13.840	26.073	1.00	45.53
ATOM 1639 CG LEU 1067	41.335	13.519	27.441	1.00	44.07
ATOM 1640 CD1 LEU 1067	42.236	12.322	27.273	1.00	37.52
ATOM 1641 CD2 LEU 1067	42.109	14.710	28.057	1.00	39.60
ATOM 1642 C LEU 1067	41.530	15.778	24.677	1.00	42.00
ATOM 1643 O LEU 1067	41.983	15.010	23.832	1.00	41.05
ATOM 1644 N PRO 1068	41.854	17.072	24.698	1.00	41.22
ATOM 1645 CD PRO 1068	41.265	18.104	25.584	1.00	34.16
ATOM 1646 CA PRO 1068	42.817	17.661	23.761	1.00	38.41
ATOM 1647 CB PRO 1068	42.919	19.104	24.277	1.00	36.08
ATOM 1648 CG PRO 1068	41.496	19.355	24.828	1.00	29.23
ATOM 1649 C PRO 1068	44.197	16.961	23.571	1.00	35.36

## FIG. 7(33)

ATOM 1650 O PRO 1068	44.932	17.258	22.623	1.00	37.80
ATOM 1651 N LEU 1069	44.552	16.040	24.455	1.00	33.98
ATOM 1653 CA LEU 1069	45.829	15.337	24.333	1.00	35.06
ATOM 1654 CB LEU 1069	46.092	14.517	25.601	1.00	37.80
ATOM 1655 CG LEU 1069	47.228	13.497	25.488	1.00	40.67
ATOM 1656 CD1 LEU 1069	48.599	14.156	25.752	1.00	36.35
ATOM 1657 CD2 LEU 1069	46.939	12.333	26.445	1.00	40.75
ATOM 1658 C LEU 1069	45.776	14.397	23.121	1.00	34.16
ATOM 1659 O LEU 1069	46.787	14.115	22.461	1.00	32.14
ATOM 1660 N LYS 1070	44.571	13.916	22.859	1.00	28.95
ATOM 1662 CA LYS 1070	44.280	13.014	21.765	1.00	28.17
ATOM 1663 CB LYS 1070	42.828	12.569	21.911	1.00	22.17
ATOM 1664 CG LYS 1070	42.553	11.730	23.144	1.00	22.02
ATOM 1665 CD LYS 1070	41.085	11.317	23.107	1.00	24.17
ATOM 1666 CE LYS 1070	40.851	9.908	23.646	1.00	29.35
ATOM 1667 NZ LYS 1070	39.444	9.436	23.439	1.00	35.82
ATOM 1671 C LYS 1070	44.518	13.582	20.340	1.00	29.26
ATOM 1672 O LYS 1070	44.368	12.867	19.344	1.00	27.81
ATOM 1673 N TRP 1071	44.862	14.865	20.260	1.00	27.00
ATOM 1675 CA TRP 1071	45.086	15.550	18.995	1.00	27.37
ATOM 1676 CB TRP 1071	44.191	16.827	18.882	1.00	20.67
ATOM 1677 CG TRP 1071	42.724	16.551	18.545	1.00	20.12
ATOM 1678 CD2 TRP 1071	41.685	16.138	19.451	1.00	17.97
ATOM 1679 CE2 TRP 1071	40.524	15.892	18.675	1.00	13.02
ATOM 1680 CE3 TRP 1071	41.628	15.944	20.838	1.00	23.76
ATOM 1681 CD1 TRP 1071	42.153	16.560	17.304	1.00	19.50
ATOM 1682 NE1 TRP 1071	40.834	16.155	17.373	1.00	13.62
ATOM 1684 CZ2 TRP 1071	39.342	15.465	19.233	1.00	16.22
ATOM 1685 CZ3 TRP 1071	40.439	15.511	21.396	1.00	20.67
ATOM 1686 CH2 TRP 1071	39.321	15.273	20.594	1.00	19.47
ATOM 1687 C TRP 1071	46.523	15.961	18.889	1.00	26.26
ATOM 1688 O TRP 1071	46.948	16.465	17.842	1.00	28.70
ATOM 1689 N MET 1072	47.278	15.713	19.959	1.00	24.85
ATOM 1691 CA MET 1072	48.676	16.119	20.034	1.00	22.67
ATOM 1692 CB MET 1072	49.066	16.317	21.487	1.00	31.30
ATOM 1693 CG MET 1072	48.328	17.416	22.229	1.00	34.64
ATOM 1694 SD MET 1072	48.977	17.610	23.948	1.00	35.65
ATOM 1695 CE MET 1072	50.667	17.842	23.669	1.00	27.97
ATOM 1696 C MET 1072	49.697	15.215	19.388	1.00	25.43
ATOM 1697 O MET 1072	49.798	14.029	19.729	1.00	21.51

## FIG. 7(34)

ATOM 1698 N ALA 1073	50.545	15.800	18.547	1.00	25.55
ATOM 1700 CA ALA 1073	51.571	15.024	17.874	1.00	29.80
ATOM 1701 CB ALA 1073	52.369	15.912	16.958	1.00	22.65
ATOM 1702 C ALA 1073	52.448	14.453	18.989	1.00	34.88
ATOM 1703 O ALA 1073	52.431	14.970	20.115	1.00	39.38
ATOM 1704 N PRO 1074	53.183	13.355	18.724	1.00	36.01
ATOM 1705 CD PRO 1074	53.087	12.450	17.570	1.00	31.55
ATOM 1706 CA PRO 1074	54.040	12.771	19.769	1.00	36.24
ATOM 1707 CB PRO 1074	54.544	11.485	19.115	1.00	34.34
ATOM 1708 CG PRO 1074	53.415	11.137	18.193	1.00	31.88
ATOM 1709 C PRO 1074	55.189	13.670	20.288	1.00	37.13
ATOM 1710 O PRO 1074	55.570	13.575	21.447	1.00	34.58
ATOM 1711 N GLU 1075	55.746	14.533	19.440	1.00	37.40
ATOM 1713 CA GLU 1075	56.813	15.422	19.884	1.00	40.62
ATOM 1714 CB GLU 1075	57.598	15.990	18.707	1.00	33.55
ATOM 1715 CG GLU 1075	56.853	16.957	17.844	1.00	39.40
ATOM 1716 CD GLU 1075	55.952	16.300	16.828	1.00	43.14
ATOM 1717 OE1 GLU 1075	55.965	15.055	16.720	1.00	49.09
ATOM 1718 OE2 GLU 1075	55.228	17.040	16.124	1.00	44.63
ATOM 1719 C GLU 1075	56.239	16.546	20.757	1.00	42.73
ATOM 1720 O GLU 1075	56.903	17.061	21.639	1.00	44.76
ATOM 1721 N THR 1076	54.982	16.888	20.524	1.00	46.13
ATOM 1723 CA THR 1076	54.304	17.923	21.283	1.00	46.22
ATOM 1724 CB THR 1076	52.991	18.319	20.605	1.00	43.95
ATOM 1725 OG1 THR 1076	53.245	18.666	19.230	1.00	46.46
ATOM 1727 CG2 THR 1076	52.361	19.481	21.334	1.00	43.93
ATOM 1728 C THR 1076	53.991	17.378	22.662	1.00	47.62
ATOM 1729 O THR 1076	54.175	18.057	23.650	1.00	52.45
ATOM 1730 N ILE 1077	53.442	16.173	22.717	1.00	47.96
ATOM 1732 CA ILE 1077	53.123	15.528	23.980	1.00	46.99
ATOM 1733 CB ILE 1077	52.496	14.151	23.720	1.00	46.43
ATOM 1734 CG2 ILE 1077	52.691	13.232	24.895	1.00	46.16
ATOM 1735 CG1 ILE 1077	51.024	14.306	23.384	1.00	44.29
ATOM 1736 CD1 ILE 1077	50.336	13.010	23.163	1.00	46.43
ATOM 1737 C ILE 1077	54.418	15.345	24.767	1.00	51.37
ATOM 1738 O ILE 1077	54.473	15.577	25.974	1.00	52.53
ATOM 1739 N PHE 1078	55.458	14.931	24.058	1.00	53.41
ATOM 1741 CA PHE 1078	56.750	14.696	24.672	1.00	58.94
ATOM 1742 CB PHE 1078	57.506	13.570	23.925	1.00	60.74
ATOM 1743 CG PHE 1078	56.901	12.184	24.124	1.00	57.84

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## FIG. 7(35)

ATOM 1744 CD1 PHE 1078	56.068	11.612	23.169	1.00	54.09
ATOM 1745 CD2 PHE 1078	57.127	11.483	25.298	1.00	58.64
ATOM 1746 CE1 PHE 1078	55.478	10.380	23.381	1.00	53.82
ATOM 1747 CE2 PHE 1078	56.539	10.254	25.514	1.00	57.20
ATOM 1748 CZ PHE 1078	55.711	9.703	24.555	1.00	55.07
ATOM 1749 C PHE 1078	57.574	15.981	24.767	1.00	63.98
ATOM 1750 O PHE 1078	57.433	16.738	25.736	1.00	67.06
ATOM 1751 N ASP 1079	58.356	16.274	23.724	1.00	66.97
ATOM 1753 CA ASP 1079	59.215	17.472	23.678	1.00	68.09
ATOM 1754 CB ASP 1079	60.225	17.402	22.501	1.00	66.89
ATOM 1755 CG ASP 1079	60.174	16.082	21.714	1.00	69.02
ATOM 1756 OD1 ASP 1079	60.254	16.156	20.474	1.00	71.23
ATOM 1757 OD2 ASP 1079	60.089	14.980	22.308	1.00	69.71
ATOM 1758 C ASP 1079	58.434	18.806	23.599	1.00	67.74
ATOM 1759 O ASP 1079	59.011	19.848	23.266	1.00	66.85
ATOM 1760 N ARG 1080	57.137	18.747	23.926	1.00	68.20
ATOM 1762 CA ARG 1080	56.173	19.858	23.898	1.00	66.60
ATOM 1763 CB ARG 1080	55.997	20.496	25.279	1.00	67.64
ATOM 1764 CG ARG 1080	54.529	20.758	25.638	1.00	71.26
ATOM 1765 CD ARG 1080	53.823	19.481	26.096	1.00	73.66
ATOM 1766 NE ARG 1080	52.364	19.610	26.226	1.00	75.75
ATOM 1768 CZ ARG 1080	51.642	18.981	27.157	1.00	74.86
ATOM 1769 NH1 ARG 1080	50.321	19.134	27.211	1.00	69.96
ATOM 1772 NH2 ARG 1080	52.247	18.212	28.060	1.00	72.78
ATOM 1775 C ARG 1080	56.305	20.920	22.801	1.00	63.93
ATOM 1776 O ARG 1080	55.861	22.069	22.955	1.00	61.93
ATOM 1777 N VAL 1081	56.863	20.510	21.667	1.00	61.30
ATOM 1779 CA VAL 1081	57.034	21.413	20.545	1.00	58.53
ATOM 1780 CB VAL 1081	58.202	20.951	19.584	1.00	60.54
ATOM 1781 CG1 VAL 1081	59.304	20.266	20.370	1.00	62.35
ATOM 1782 CG2 VAL 1081	57.701	20.043	18.455	1.00	55.04
ATOM 1783 C VAL 1081	55.713	21.481	19.771	1.00	56.90
ATOM 1784 O VAL 1081	55.052	20.452	19.560	1.00	57.43
ATOM 1785 N TYR 1082	55.287	22.699	19.435	1.00	51.51
ATOM 1787 CA TYR 1082	54.078	22.909	18.641	1.00	41.08
ATOM 1788 CB TYR 1082	53.092	23.847	19.332	1.00	37.59
ATOM 1789 CG TYR 1082	52.275	23.238	20.442	1.00	32.41
ATOM 1790 CD1 TYR 1082	52.800	23.135	21.721	1.00	38.13
ATOM 1791 CE1 TYR 1082	52.043	22.663	22.781	1.00	38.73
ATOM 1792 CD2 TYR 1082	50.961	22.843	20.234	1.00	27.91

## FIG. 7(36)

ATOM 1793 CE2 TYR 1082	50.189	22.374	21.287	1.00	33.59
ATOM 1794 CZ TYR 1082	50.739	22.290	22.572	1.00	36.82
ATOM 1795 OH TYR 1082	50.001	21.874	23.679	1.00	39.60
ATOM 1797 C TYR 1082	54.591	23.598	17.410	1.00	34.81
ATOM 1798 O TYR 1082	55.240	24.608	17.545	1.00	33.62
ATOM 1799 N THR 1083	54.394	22.997	16.236	1.00	34.71
ATOM 1801 CA THR 1083	54.819	23.573	14.946	1.00	30.90
ATOM 1802 CB THR 1083	56.106	22.894	14.384	1.00	29.46
ATOM 1803 OG1 THR 1083	55.789	21.598	13.837	1.00	30.18
ATOM 1805 CG2 THR 1083	57.159	22.768	15.486	1.00	21.74
ATOM 1806 C THR 1083	53.678	23.371	13.946	1.00	27.79
ATOM 1807 O THR 1083	52.651	22.777	14.293	1.00	28.80
ATOM 1808 N ILE 1084	53.804	23.869	12.721	1.00	24.37
ATOM 1810 CA ILE 1084	52.700	23.615	11.797	1.00	27.69
ATOM 1811 CB ILE 1084	52.739	24.381	10.465	1.00	28.65
ATOM 1812 CG2 ILE 1084	51.450	25.166	10.284	1.00	29.19
ATOM 1813 CG1 ILE 1084	53.977	25.259	10.361	1.00	37.75
ATOM 1814 CD1 ILE 1084	55.235	24.517	9.985	1.00	46.61
ATOM 1815 C ILE 1084	52.689	22.143	11.459	1.00	26.44
ATOM 1816 O ILE 1084	51.627	21.589	11.173	1.00	24.29
ATOM 1817 N GLN 1085	53.861	21.507	11.518	1.00	25.11
ATOM 1819 CA GLN 1085	53.920	20.097	11.188	1.00	24.39
ATOM 1820 CB GLN 1085	55.315	19.612	10.823	1.00	27.61
ATOM 1821 CG GLN 1085	55.753	20.012	9.411	1.00	33.25
ATOM 1822 CD GLN 1085	54.653	19.826	8.347	1.00	34.07
ATOM 1823 OE1 GLN 1085	53.943	20.779	8.004	1.00	41.60
ATOM 1824 NE2 GLN 1085	54.546	18.632	7.797	1.00	28.88
ATOM 1827 C GLN 1085	53.296	19.267	12.258	1.00	23.23
ATOM 1828 O GLN 1085	52.900	18.141	11.981	1.00	25.97
ATOM 1829 N SER 1086	53.195	19.798	13.480	1.00	20.86
ATOM 1831 CA SER 1086	52.488	19.040	14.507	1.00	18.08
ATOM 1832 CB SER 1086	53.044	19.256	15.926	1.00	20.91
ATOM 1833 OG SER 1086	52.870	20.559	16.440	1.00	21.60
ATOM 1835 C SER 1086	50.962	19.336	14.353	1.00	20.67
ATOM 1836 O SER 1086	50.138	18.531	14.806	1.00	13.79
ATOM 1837 N ASP 1087	50.602	20.415	13.609	1.00	18.68
ATOM 1839 CA ASP 1087	49.190	20.793	13.324	1.00	11.08
ATOM 1840 CB ASP 1087	49.038	22.249	12.805	1.00	21.08
ATOM 1841 CG ASP 1087	48.845	23.287	13.920	1.00	23.79
ATOM 1842 OD1 ASP 1087	49.348	24.407	13.745	1.00	31.01

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## FIG. 7(37)

ATOM	1843	OD2	ASP	1087	48.212	23.013	14.967	1.00	28.91
ATOM	1844	C	ASP	1087	48.632	19.860	12.261	1.00	11.16
ATOM	1845	O	ASP	1087	47.406	19.640	12.177	1.00	12.65
ATOM	1846	N	VAL	1088	49.520	19.390	11.390	1.00	9.61
ATOM	1848	CA	VAL	1088	49.181	18.404	10.345	1.00	13.37
ATOM	1849	CB	VAL	1088	50.351	18.195	9.389	1.00	15.40
ATOM	1850	CG1	VAL	1088	50.057	17.067	8.486	1.00	14.68
ATOM	1851	CG2	VAL	1088	50.609	19.477	8.587	1.00	10.67
ATOM	1852	C	VAL	1088	48.839	17.061	11.014	1.00	13.67
ATOM	1853	O	VAL	1088	47.897	16.387	10.618	1.00	15.00
ATOM	1854	N	TRP	1089	49.618	16.668	12.015	1.00	12.30
ATOM	1856	CA	TRP	1089	49.301	15.460	12.748	1.00	12.96
ATOM	1857	CB	TRP	1089	50.236	15.279	13.960	1.00	16.98
ATOM	1858	CG	TRP	1089	49.764	14.195	14.887	1.00	18.14
ATOM	1859	CD2	TRP	1089	50.325	12.884	15.031	1.00	18.48
ATOM	1860	CE2	TRP	1089	49.476	12.162	15.893	1.00	20.05
ATOM	1861	CE3	TRP	1089	51.460	12.245	14.503	1.00	22.61
ATOM	1862	CD1	TRP	1089	48.640	14.215	15.657	1.00	18.89
ATOM	1863	NE1	TRP	1089	48.451	12.995	16.255	1.00	19.54
ATOM	1865	CZ2	TRP	1089	49.725	10.839	16.249	1.00	20.08
ATOM	1866	CZ3	TRP	1089	51.709	10.927	14.855	1.00	17.00
ATOM	1867	CH2	TRP	1089	50.846	10.243	15.722	1.00	23.71
ATOM	1868	C	TRP	1089	47.873	15.711	13.207	1.00	14.68
ATOM	1869	O	TRP	1089	46.987	14.958	12.842	1.00	20.33
ATOM	1870	N	SER	1090	47.636	16.823	13.923	1.00	18.59
ATOM	1872	CA	SER	1090	46.287	17.209	14.413	1.00	15.54
ATOM	1873	CB	SER	1090	46.297	18.603	15.043	1.00	12.20
ATOM	1874	OG	SER	1090	47.066	18.621	16.237	1.00	18.86
ATOM	1876	C	SER	1090	45.256	17.190	13.309	1.00	16.50
ATOM	1877	O	SER	1090	44.128	16.691	13.487	1.00	18.14
ATOM	1878	N	PHE	1091	45.635	17.745	12.158	1.00	23.35
ATOM	1880	CA	PHE	1091	44.746	17.776	10.997	1.00	20.78
ATOM	1881	CB	PHE	1091	45.445	18.399	9.786	1.00	17.07
ATOM	1882	CG	PHE	1091	44.533	18.524	8.598	1.00	21.98
ATOM	1883	CD1	PHE	1091	43.396	19.347	8.666	1.00	17.34
ATOM	1884	CD2	PHE	1091	44.740	17.754	7.460	1.00	19.42
ATOM	1885	CE1	PHE	1091	42.485	19.398	7.641	1.00	15.43
ATOM	1886	CE2	PHE	1091	43.829	17.792	6.421	1.00	18.06
ATOM	1887	CZ	PHE	1091	42.693	18.618	6.509	1.00	19.76
ATOM	1888	C	PHE	1091	44.306	16.332	10.667	1.00	17.25

## FIG. 7(38)

ATOM 1889 O PHE 1091	43.147	16.077	10.334	1.00	15.79
ATOM 1890 N GLY 1092	45.258	15.408	10.812	1.00	19.49
ATOM 1892 CA GLY 1092	45.042	13.988	10.577	1.00	18.11
ATOM 1893 C GLY 1092	44.029	13.429	11.544	1.00	19.35
ATOM 1894 O GLY 1092	43.235	12.581	11.137	1.00	24.23
ATOM 1895 N VAL 1093	44.073	13.836	12.819	1.00	18.53
ATOM 1897 CA VAL 1093	43.055	13.392	13.788	1.00	20.09
ATOM 1898 CB VAL 1093	43.389	13.752	15.298	1.00	15.18
ATOM 1899 CG1 VAL 1093	42.421	13.051	16.187	1.00	17.08
ATOM 1900 CG2 VAL 1093	44.778	13.310	15.698	1.00	11.27
ATOM 1901 C VAL 1093	41.661	13.971	13.376	1.00	22.42
ATOM 1902 O VAL 1093	40.649	13.253	13.396	1.00	26.19
ATOM 1903 N LEU 1094	41.618	15.235	12.938	1.00	23.95
ATOM 1905 CA LEU 1094	40.363	15.893	12.484	1.00	19.63
ATOM 1906 CB LEU 1094	40.667	17.338	12.050	1.00	25.24
ATOM 1907 CG LEU 1094	39.587	18.420	11.974	1.00	27.30
ATOM 1908 CD1 LEU 1094	40.136	19.497	11.113	1.00	28.26
ATOM 1909 CD2 LEU 1094	38.265	17.929	11.385	1.00	27.54
ATOM 1910 C LEU 1094	39.775	15.146	11.280	1.00	16.12
ATOM 1911 O LEU 1094	38.555	15.002	11.129	1.00	16.14
ATOM 1912 N LEU 1095	40.631	14.766	10.348	1.00	16.30
ATOM 1914 CA LEU 1095	40.155	14.003	9.195	1.00	17.98
ATOM 1915 CB LEU 1095	41.321	13.538	8.317	1.00	16.52
ATOM 1916 CG LEU 1095	41.981	14.536	7.386	1.00	14.88
ATOM 1917 CD1 LEU 1095	42.807	13.734	6.399	1.00	11.81
ATOM 1918 CD2 LEU 1095	40.931	15.401	6.639	1.00	21.08
ATOM 1919 C LEU 1095	39.437	12.770	9.722	1.00	17.52
ATOM 1920 O LEU 1095	38.324	12.448	9.270	1.00	16.23
ATOM 1921 N TRP 1096	40.077	12.105	10.697	1.00	14.50
ATOM 1923 CA TRP 1096	39.509	10.916	11.304	1.00	14.02
ATOM 1924 CB TRP 1096	40.452	10.330	12.337	1.00	13.21
ATOM 1925 CG TRP 1096	40.010	8.992	12.850	1.00	18.93
ATOM 1926 CD2 TRP 1096	39.016	8.732	13.856	1.00	24.77
ATOM 1927 CE2 TRP 1096	38.952	7.319	14.020	1.00	27.07
ATOM 1928 CE3 TRP 1096	38.178	9.546	14.647	1.00	29.39
ATOM 1929 CD1 TRP 1096	40.483	7.781	12.460	1.00	21.28
ATOM 1930 NE1 TRP 1096	39.854	6.770	13.154	1.00	18.61
ATOM 1932 CZ2 TRP 1096	38.075	6.700	14.954	1.00	28.21
ATOM 1933 CZ3 TRP 1096	37.303	8.927	15.581	1.00	29.42
ATOM 1934 CH2 TRP 1096	37.266	7.511	15.719	1.00	27.60



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## FIG. 7(39)

ATOM 1935 C TRP 1096	38.159	11.236	11.927	1.00	18.94
ATOM 1936 O TRP 1096	37.212	10.439	11.826	1.00	22.31
ATOM 1937 N GLU 1097	38.046	12.385	12.592	1.00	23.97
ATOM 1939 CA GLU 1097	36.754	12.750	13.195	1.00	21.61
ATOM 1940 CB GLU 1097	36.823	14.012	14.041	1.00	26.60
ATOM 1941 CG GLU 1097	37.880	14.065	15.109	1.00	21.55
ATOM 1942 CD GLU 1097	37.795	15.380	15.800	1.00	23.56
ATOM 1943 OE1 GLU 1097	36.726	15.591	16.393	1.00	21.97
ATOM 1944 OE2 GLU 1097	38.741	16.208	15.706	1.00	20.79
ATOM 1945 C GLU 1097	35.744	13.010	12.116	1.00	19.15
ATOM 1946 O GLU 1097	34.549	12.766	12.304	1.00	28.35
ATOM 1947 N ILE 1098	36.190	13.565	11.001	1.00	17.99
ATOM 1949 CA ILE 1098	35.244	13.821	9.915	1.00	17.98
ATOM 1950 CB ILE 1098	35.862	14.650	8.732	1.00	13.59
ATOM 1951 CG2 ILE 1098	34.880	14.725	7.568	1.00	13.47
ATOM 1952 CG1 ILE 1098	36.169	16.074	9.181	1.00	11.46
ATOM 1953 CD1 ILE 1098	36.691	16.960	8.074	1.00	9.72
ATOM 1954 C ILE 1098	34.645	12.529	9.372	1.00	16.07
ATOM 1955 O ILE 1098	33.444	12.445	9.171	1.00	18.22
ATOM 1956 N PHE 1099	35.460	11.499	9.171	1.00	20.11
ATOM 1958 CA PHE 1099	34.925	10.257	8.601	1.00	18.95
ATOM 1959 CB PHE 1099	35.909	9.660	7.625	1.00	16.86
ATOM 1960 CG PHE 1099	36.269	10.584	6.517	1.00	12.61
ATOM 1961 CD1 PHE 1099	37.308	11.468	6.671	1.00	14.37
ATOM 1962 CD2 PHE 1099	35.522	10.624	5.362	1.00	18.03
ATOM 1963 CE1 PHE 1099	37.595	12.369	5.717	1.00	13.66
ATOM 1964 CE2 PHE 1099	35.811	11.553	4.378	1.00	16.05
ATOM 1965 CZ PHE 1099	36.843	12.418	4.568	1.00	17.86
ATOM 1966 C PHE 1099	34.368	9.201	9.551	1.00	23.18
ATOM 1967 O PHE 1099	34.111	8.070	9.149	1.00	22.90
ATOM 1968 N SER 1100	34.274	9.553	10.825	1.00	26.68
ATOM 1970 CA SER 1100	33.652	8.690	11.820	1.00	24.51
ATOM 1971 CB SER 1100	34.504	8.572	13.079	1.00	25.60
ATOM 1972 OG SER 1100	34.826	9.842	13.625	1.00	29.76
ATOM 1974 C SER 1100	32.398	9.465	12.145	1.00	26.92
ATOM 1975 O SER 1100	31.765	9.211	13.157	1.00	31.32
ATOM 1976 N LEU 1101	32.018	10.387	11.251	1.00	28.15
ATOM 1978 CA LEU 1101	30.860	11.241	11.453	1.00	24.97
ATOM 1979 CB LEU 1101	29.556	10.557	11.015	1.00	22.00
ATOM 1980 CG LEU 1101	29.423	10.410	9.495	1.00	25.66

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## FIG. 7(40)

ATOM 1981 CD1 LEU 1101	28.060	9.866	9.127	1.00	22.23
ATOM 1982 CD2 LEU 1101	29.632	11.768	8.829	1.00	32.30
ATOM 1983 C LEU 1101	30.771	11.779	12.888	1.00	26.64
ATOM 1984 O LEU 1101	29.793	11.552	13.580	1.00	31.34
ATOM 1985 N GLY 1102	31.828	12.446	13.336	1.00	24.93
ATOM 1987 CA GLY 1102	31.836	13.057	14.650	1.00	28.61
ATOM 1988 C GLY 1102	32.129	12.293	15.917	1.00	32.38
ATOM 1989 O GLY 1102	31.647	12.693	16.950	1.00	35.69
ATOM 1990 N ALA 1103	33.004	11.291	15.876	1.00	35.95
ATOM 1992 CA ALA 1103	33.354	10.500	17.060	1.00	31.27
ATOM 1993 CB ALA 1103	33.515	9.041	16.672	1.00	36.15
ATOM 1994 C ALA 1103	34.625	10.972	17.747	1.00	34.29
ATOM 1995 O ALA 1103	35.382	11.788	17.190	1.00	36.92
ATOM 1996 N SER 1104	34.886	10.417	18.934	1.00	33.11
ATOM 1998 CA SER 1104	36.087	10.744	19.715	1.00	35.13
ATOM 1999 CB SER 1104	35.906	10.422	21.207	1.00	38.40
ATOM 2000 OG SER 1104	34.719	10.964	21.765	1.00	50.36
ATOM 2002 C SER 1104	37.216	9.852	19.249	1.00	34.54
ATOM 2003 O SER 1104	37.039	8.640	19.167	1.00	33.44
ATOM 2004 N PRO 1105	38.395	10.434	18.963	1.00	32.93
ATOM 2005 CD PRO 1105	38.678	11.877	18.972	1.00	31.54
ATOM 2006 CA PRO 1105	39.571	9.693	18.513	1.00	29.88
ATOM 2007 CB PRO 1105	40.633	10.781	18.465	1.00	22.24
ATOM 2008 CG PRO 1105	39.883	11.965	18.079	1.00	28.04
ATOM 2009 C PRO 1105	39.919	8.659	19.582	1.00	32.54
ATOM 2010 O PRO 1105	39.480	8.795	20.731	1.00	28.79
ATOM 2011 N TYR 1106	40.700	7.648	19.196	1.00	34.52
ATOM 2013 CA TYR 1106	41.148	6.564	20.085	1.00	39.62
ATOM 2014 CB TYR 1106	42.374	6.994	20.896	1.00	37.66
ATOM 2015 CG TYR 1106	43.496	7.566	20.059	1.00	39.50
ATOM 2016 CD1 TYR 1106	43.690	8.957	19.976	1.00	37.50
ATOM 2017 CE1 TYR 1106	44.655	9.518	19.143	1.00	35.61
ATOM 2018 CD2 TYR 1106	44.315	6.739	19.293	1.00	34.54
ATOM 2019 CE2 TYR 1106	45.305	7.290	18.446	1.00	38.80
ATOM 2020 CZ TYR 1106	45.466	8.686	18.373	1.00	38.23
ATOM 2021 OH TYR 1106	46.412	9.240	17.520	1.00	31.37
ATOM 2023 C TYR 1106	40.022	6.128	21.016	1.00	47.24
ATOM 2024 O TYR 1106	40.100	6.296	22.247	1.00	46.94
ATOM 2025 N PRO 1107	38.947	5.570	20.431	1.00	52.30
ATOM 2026 CD PRO 1107	38.880	5.234	18.996	1.00	52.76

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## FIG. 7(41)

ATOM	2027	CA	PRO	1107	37.750	5.088	21.125	1.00	55.67
ATOM	2028	CB	PRO	1107	37.078	4.223	20.066	1.00	55.09
ATOM	2029	CG	PRO	1107	37.420	4.931	18.797	1.00	52.62
ATOM	2030	C	PRO	1107	38.035	4.300	22.408	1.00	60.55
ATOM	2031	O	PRO	1107	38.668	3.231	22.377	1.00	60.88
ATOM	2032	N	GLY	1108	37.631	4.894	23.533	1.00	62.85
ATOM	2034	CA	GLY	1108	37.790	4.284	24.845	1.00	63.10
ATOM	2035	C	GLY	1108	39.171	3.783	25.228	1.00	61.44
ATOM	2036	O	GLY	1108	39.319	3.010	26.178	1.00	63.49
ATOM	2037	N	VAL	1109	40.181	4.228	24.498	1.00	58.31
ATOM	2039	CA	VAL	1109	41.548	3.835	24.766	1.00	55.54
ATOM	2040	CB	VAL	1109	42.430	4.181	23.580	1.00	54.11
ATOM	2041	CG1	VAL	1109	43.857	3.787	23.857	1.00	51.33
ATOM	2042	CG2	VAL	1109	41.875	3.528	22.306	1.00	54.09
ATOM	2043	C	VAL	1109	42.006	4.657	25.949	1.00	57.04
ATOM	2044	O	VAL	1109	41.492	5.749	26.163	1.00	57.18
ATOM	2045	N	LYS	1110	42.969	4.140	26.711	1.00	59.43
ATOM	2047	CA	LYS	1110	43.497	4.849	27.880	1.00	60.27
ATOM	2048	CB	LYS	1110	43.928	3.842	28.936	1.00	63.70
ATOM	2049	C	LYS	1110	44.664	5.796	27.538	1.00	60.52
ATOM	2050	O	LYS	1110	45.570	5.410	26.780	1.00	61.06
ATOM	2051	N	ILE	1111	44.665	7.006	28.115	1.00	58.79
ATOM	2053	CA	ILE	1111	45.732	7.987	27.859	1.00	60.01
ATOM	2054	CB	ILE	1111	45.236	9.441	27.886	1.00	63.41
ATOM	2055	CG2	ILE	1111	44.517	9.798	26.596	1.00	58.31
ATOM	2056	CG1	ILE	1111	44.413	9.688	29.145	1.00	69.87
ATOM	2057	CD1	ILE	1111	44.341	11.144	29.528	1.00	75.64
ATOM	2058	C	ILE	1111	46.949	7.891	28.781	1.00	58.91
ATOM	2059	O	ILE	1111	47.670	8.862	28.992	1.00	59.56
ATOM	2060	N	ASP	1112	47.187	6.697	29.299	1.00	60.43
ATOM	2062	CA	ASP	1112	48.312	6.407	30.173	1.00	56.25
ATOM	2063	CB	ASP	1112	48.318	4.919	30.421	1.00	59.88
ATOM	2064	CG	ASP	1112	48.273	4.131	29.122	1.00	67.87
ATOM	2065	OD1	ASP	1112	47.179	3.893	28.564	1.00	71.34
ATOM	2066	OD2	ASP	1112	49.348	3.765	28.628	1.00	72.11
ATOM	2067	C	ASP	1112	49.612	6.795	29.489	1.00	54.37
ATOM	2068	O	ASP	1112	49.634	7.066	28.284	1.00	50.67
ATOM	2069	N	GLU	1113	50.710	6.741	30.236	1.00	55.36
ATOM	2071	CA	GLU	1113	52.024	7.089	29.683	1.00	55.99
ATOM	2072	CB	GLU	1113	53.051	7.374	30.806	1.00	58.69

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FIG. 7(42)

ATOM	2073	C	GLU	1113	52.552	6.015	28.726	1.00	54.42
ATOM	2074	O	GLU	1113	53.624	6.175	28.126	1.00	51.91
ATOM	2075	N	GLU	1114	51.822	4.903	28.627	1.00	51.54
ATOM	2077	CA	GLU	1114	52.192	3.819	27.719	1.00	54.36
ATOM	2078	CB	GLU	1114	51.873	2.452	28.322	1.00	56.43
ATOM	2079	CG	GLU	1114	53.072	1.749	28.948	1.00	63.29
ATOM	2080	CD	GLU	1114	53.996	2.661	29.772	1.00	67.36
ATOM	2081	OE1	GLU	1114	55.153	2.870	29.329	1.00	67.34
ATOM	2082	OE2	GLU	1114	53.590	3.127	30.873	1.00	68.20
ATOM	2083	C	GLU	1114	51.440	4.031	26.412	1.00	52.22
ATOM	2084	O	GLU	1114	51.830	3.514	25.360	1.00	51.74
ATOM	2085	N	PHE	1115	50.383	4.840	26.486	1.00	49.67
ATOM	2087	CA	PHE	1115	49.603	5.175	25.320	1.00	44.59
ATOM	2088	CB	PHE	1115	48.400	6.013	25.688	1.00	44.73
ATOM	2089	CG	PHE	1115	47.918	6.890	24.579	1.00	49.93
ATOM	2090	CD1	PHE	1115	48.140	8.270	24.621	1.00	50.02
ATOM	2091	CD2	PHE	1115	47.251	6.344	23.477	1.00	53.38
ATOM	2092	CE1	PHE	1115	47.704	9.098	23.577	1.00	52.88
ATOM	2093	CE2	PHE	1115	46.805	7.158	22.425	1.00	51.00
ATOM	2094	CZ	PHE	1115	47.033	8.535	22.474	1.00	54.64
ATOM	2095	C	PHE	1115	50.582	5.981	24.507	1.00	46.08
ATOM	2096	O	PHE	1115	50.929	5.572	23.402	1.00	47.48
ATOM	2097	N	CYS	1116	51.127	7.047	25.101	1.00	43.91
ATOM	2099	CA	CYS	1116	52.109	7.898	24.404	1.00	45.79
ATOM	2100	CB	CYS	1116	52.473	9.113	25.247	1.00	44.47
ATOM	2101	SG	CYS	1116	51.129	9.723	26.295	1.00	64.10
ATOM	2102	C	CYS	1116	53.392	7.140	24.019	1.00	46.03
ATOM	2103	O	CYS	1116	54.232	7.667	23.279	1.00	46.86
ATOM	2104	N	ARG	1117	53.536	5.911	24.529	1.00	44.91
ATOM	2106	CA	ARG	1117	54.688	5.069	24.237	1.00	41.89
ATOM	2107	CB	ARG	1117	54.882	4.001	25.308	1.00	43.78
ATOM	2108	CG	ARG	1117	56.237	3.298	25.233	1.00	45.19
ATOM	2109	CD	ARG	1117	56.189	1.905	25.856	1.00	47.09
ATOM	2110	NE	ARG	1117	55.490	0.922	25.021	1.00	49.55
ATOM	2112	CZ	ARG	1117	54.329	0.337	25.336	1.00	51.59
ATOM	2113	NH1	ARG	1117	53.783	-0.547	24.506	1.00	51.49
ATOM	2116	NH2	ARG	1117	53.695	0.649	26.461	1.00	47.17
ATOM	2119	C	ARG	1117	54.370	4.389	22.927	1.00	38.98
ATOM	2120	O	ARG	1117	55.156	4.455	21.996	1.00	42.49
ATOM	2121	N	ARG	1118	53.206	3.751	22.860	1.00	35.52

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## FIG. 7(43)

ATOM	2123	CA	ARG	1118	52.745	3.072	21.649	1.00	36.78
ATOM	2124	CB	ARG	1118	51.330	2.559	21.880	1.00	31.14
ATOM	2125	CG	ARG	1118	51.216	1.675	23.068	1.00	34.41
ATOM	2126	CD	ARG	1118	49.766	1.587	23.535	1.00	45.83
ATOM	2127	NE	ARG	1118	48.897	0.750	22.693	1.00	53.41
ATOM	2129	CZ	ARG	1118	47.564	0.658	22.826	1.00	55.58
ATOM	2130	NH1	ARG	1118	46.862	-0.144	22.025	1.00	56.70
ATOM	2133	NH2	ARG	1118	46.921	1.380	23.745	1.00	55.55
ATOM	2136	C	ARG	1118	52.742	4.067	20.471	1.00	38.92
ATOM	2137	O	ARG	1118	53.331	3.835	19.400	1.00	38.28
ATOM	2138	N	LEU	1119	52.063	5.186	20.711	1.00	40.67
ATOM	2140	CA	LEU	1119	51.912	6.295	19.779	1.00	36.71
ATOM	2141	CB	LEU	1119	51.192	7.416	20.540	1.00	32.46
ATOM	2142	CG	LEU	1119	50.238	8.508	20.049	1.00	25.91
ATOM	2143	CD1	LEU	1119	51.047	9.651	19.564	1.00	19.62
ATOM	2144	CD2	LEU	1119	49.250	7.993	19.024	1.00	22.26
ATOM	2145	C	LEU	1119	53.301	6.728	19.245	1.00	38.89
ATOM	2146	O	LEU	1119	53.469	6.960	18.047	1.00	43.59
ATOM	2147	N	LYS	1120	54.315	6.771	20.099	1.00	42.22
ATOM	2149	CA	LYS	1120	55.649	7.152	19.640	1.00	41.56
ATOM	2150	CB	LYS	1120	56.523	7.548	20.813	1.00	42.85
ATOM	2151	CG	LYS	1120	57.467	8.670	20.467	1.00	52.51
ATOM	2152	CD	LYS	1120	58.407	8.989	21.620	1.00	60.23
ATOM	2153	CE	LYS	1120	59.298	10.206	21.321	1.00	69.72
ATOM	2154	NZ	LYS	1120	58.605	11.557	21.283	1.00	76.23
ATOM	2158	C	LYS	1120	56.351	6.050	18.825	1.00	43.73
ATOM	2159	O	LYS	1120	57.287	6.342	18.073	1.00	47.49
ATOM	2160	N	GLU	1121	55.892	4.800	18.966	1.00	43.94
ATOM	2162	CA	GLU	1121	56.453	3.636	18.262	1.00	41.07
ATOM	2163	CB	GLU	1121	56.415	2.395	19.147	1.00	48.40
ATOM	2164	CG	GLU	1121	57.553	2.283	20.112	1.00	58.39
ATOM	2165	CD	GLU	1121	57.183	1.451	21.309	1.00	64.79
ATOM	2166	OE1	GLU	1121	56.403	0.483	21.119	1.00	67.43
ATOM	2167	OE2	GLU	1121	57.657	1.778	22.431	1.00	67.24
ATOM	2168	C	GLU	1121	55.739	3.284	16.968	1.00	39.16
ATOM	2169	O	GLU	1121	56.224	2.423	16.216	1.00	39.90
ATOM	2170	N	GLY	1122	54.525	3.805	16.781	1.00	31.72
ATOM	2172	CA	GLY	1122	53.838	3.550	15.531	1.00	22.36
ATOM	2173	C	GLY	1122	52.427	3.064	15.646	1.00	19.85
ATOM	2174	O	GLY	1122	51.791	2.779	14.633	1.00	18.01

FIG. 7(44)

ATOM 2175 N THR 1123	51.918	2.946	16.860	1.00	16.84
ATOM 2177 CA THR 1123	50.535	2.502	16.989	1.00	22.17
ATOM 2178 CB THR 1123	50.209	2.144	18.469	1.00	29.75
ATOM 2179 OG1 THR 1123	51.148	1.174	18.971	1.00	31.60
ATOM 2181 CG2 THR 1123	48.794	1.587	18.591	1.00	31.44
ATOM 2182 C THR 1123	49.653	3.673	16.453	1.00	23.74
ATOM 2183 O THR 1123	49.940	4.850	16.721	1.00	18.73
ATOM 2184 N ARG 1124	48.597	3.354	15.701	1.00	22.93
ATOM 2186 CA ARG 1124	47.735	4.379	15.125	1.00	17.39
ATOM 2187 CB ARG 1124	48.094	4.680	13.670	1.00	17.70
ATOM 2188 CG ARG 1124	49.478	5.192	13.406	1.00	14.57
ATOM 2189 CD ARG 1124	49.713	6.484	14.040	1.00	14.31
ATOM 2190 NE ARG 1124	51.046	6.935	13.684	1.00	10.98
ATOM 2192 CZ ARG 1124	52.067	6.988	14.533	1.00	16.02
ATOM 2193 NH1 ARG 1124	51.861	6.604	15.775	1.00	10.96
ATOM 2196 NH2 ARG 1124	53.269	7.468	14.163	1.00	8.74
ATOM 2199 C ARG 1124	46.317	3.893	15.096	1.00	16.31
ATOM 2200 O ARG 1124	46.085	2.698	15.022	1.00	20.38
ATOM 2201 N MET 1125	45.380	4.847	15.081	1.00	21.15
ATOM 2203 CA MET 1125	43.943	4.570	15.023	1.00	23.81
ATOM 2204 CB MET 1125	43.158	5.870	15.012	1.00	16.88
ATOM 2205 CG MET 1125	42.783	6.397	16.380	1.00	17.08
ATOM 2206 SD MET 1125	41.656	7.825	16.270	1.00	25.19
ATOM 2207 CE MET 1125	42.908	9.123	15.776	1.00	17.02
ATOM 2208 C MET 1125	43.604	3.789	13.749	1.00	29.80
ATOM 2209 O MET 1125	44.298	3.923	12.748	1.00	33.37
ATOM 2210 N ARG 1126	42.576	2.953	13.806	1.00	36.07
ATOM 2212 CA ARG 1126	42.116	2.183	12.668	1.00	36.36
ATOM 2213 CB ARG 1126	41.465	0.859	13.154	1.00	40.10
ATOM 2214 CG ARG 1126	40.257	1.021	14.061	1.00	54.46
ATOM 2215 CD ARG 1126	38.956	1.268	13.263	1.00	65.08
ATOM 2216 NE ARG 1126	37.839	1.758	14.091	1.00	72.39
ATOM 2218 CZ ARG 1126	36.545	1.753	13.740	1.00	74.53
ATOM 2219 NH1 ARG 1126	35.636	2.233	14.588	1.00	78.72
ATOM 2222 NH2 ARG 1126	36.140	1.267	12.562	1.00	74.28
ATOM 2225 C ARG 1126	41.124	3.094	11.888	1.00	32.52
ATOM 2226 O ARG 1126	40.706	4.117	12.380	1.00	34.88
ATOM 2227 N ALA 1127	40.760	2.725	10.676	1.00	29.80
ATOM 2229 CA ALA 1127	39.888	3.508	9.812	1.00	29.83
ATOM 2230 CB ALA 1127	39.743	2.782	8.460	1.00	32.24

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## FIG. 7(45)

ATOM 2231	C ALA 1127	38.518	3.697	10.415	1.00	34.29
ATOM 2232	O ALA 1127	37.944	2.727	10.881	1.00	39.95
ATOM 2233	N PRO 1128	37.943	4.934	10.335	1.00	34.66
ATOM 2234	CD PRO 1128	38.477	6.142	9.685	1.00	35.04
ATOM 2235	CA PRO 1128	36.612	5.251	10.871	1.00	31.59
ATOM 2236	CB PRO 1128	36.511	6.776	10.669	1.00	32.56
ATOM 2237	CG PRO 1128	37.819	7.222	10.499	1.00	31.06
ATOM 2238	C PRO 1128	35.648	4.597	9.916	1.00	33.99
ATOM 2239	O PRO 1128	35.975	4.429	8.749	1.00	38.28
ATOM 2240	N ASP 1129	34.416	4.371	10.344	1.00	31.98
ATOM 2242	CA ASP 1129	33.425	3.728	9.489	1.00	34.11
ATOM 2243	CB ASP 1129	32.157	3.432	10.277	1.00	29.91
ATOM 2244	CG ASP 1129	32.447	2.811	11.623	1.00	34.04
ATOM 2245	OD1 ASP 1129	33.519	2.172	11.805	1.00	35.22
ATOM 2246	OD2 ASP 1129	31.597	2.976	12.515	1.00	36.43
ATOM 2247	C ASP 1129	33.061	4.360	8.158	1.00	35.75
ATOM 2248	O ASP 1129	32.441	3.699	7.312	1.00	38.26
ATOM 2249	N TYR 1130	33.444	5.613	7.925	1.00	32.58
ATOM 2251	CA TYR 1130	33.056	6.200	6.649	1.00	34.86
ATOM 2252	CB TYR 1130	32.067	7.332	6.888	1.00	38.26
ATOM 2253	CG TYR 1130	30.996	6.960	7.889	1.00	37.51
ATOM 2254	CD1 TYR 1130	31.208	7.153	9.245	1.00	36.44
ATOM 2255	CE1 TYR 1130	30.249	6.853	10.148	1.00	40.00
ATOM 2256	CD2 TYR 1130	29.787	6.442	7.468	1.00	39.18
ATOM 2257	CE2 TYR 1130	28.813	6.143	8.360	1.00	34.53
ATOM 2258	CZ TYR 1130	29.050	6.353	9.709	1.00	39.16
ATOM 2259	OH TYR 1130	28.120	6.147	10.690	1.00	47.34
ATOM 2261	C TYR 1130	34.136	6.657	5.732	1.00	34.80
ATOM 2262	O TYR 1130	33.853	7.257	4.694	1.00	27.05
ATOM 2263	N THR 1131	35.388	6.414	6.108	1.00	37.58
ATOM 2265	CA THR 1131	36.457	6.829	5.238	1.00	38.70
ATOM 2266	CB THR 1131	37.783	6.598	5.763	1.00	39.57
ATOM 2267	OG1 THR 1131	37.775	5.417	6.564	1.00	51.23
ATOM 2269	CG2 THR 1131	38.250	7.775	6.481	1.00	49.58
ATOM 2270	C THR 1131	36.476	6.071	3.955	1.00	38.19
ATOM 2271	O THR 1131	35.913	4.967	3.808	1.00	38.82
ATOM 2272	N THR 1132	37.297	6.649	3.104	1.00	31.58
ATOM 2274	CA THR 1132	37.638	6.148	1.836	1.00	27.37
ATOM 2275	CB THR 1132	37.591	7.302	0.887	1.00	18.06
ATOM 2276	OG1 THR 1132	36.274	7.366	0.348	1.00	29.75

## FIG. 7(46)

ATOM 2278	CG2 THR 1132	38.528	7.126	-0.161	1.00	32.09
ATOM 2279	C THR 1132	39.064	5.634	2.159	1.00	31.18
ATOM 2280	O THR 1132	39.678	6.088	3.149	1.00	37.35
ATOM 2281	N PRO 1133	39.543	4.601	1.439	1.00	29.49
ATOM 2282	CD PRO 1133	38.884	3.875	0.336	1.00	28.18
ATOM 2283	CA PRO 1133	40.876	4.065	1.686	1.00	23.60
ATOM 2284	CB PRO 1133	41.029	2.998	0.604	1.00	29.05
ATOM 2285	CG PRO 1133	39.640	2.581	0.319	1.00	28.36
ATOM 2286	C PRO 1133	41.917	5.122	1.500	1.00	22.87
ATOM 2287	O PRO 1133	42.944	5.119	2.182	1.00	30.07
ATOM 2288	N GLU 1134	41.700	5.983	0.511	1.00	18.80
ATOM 2290	CA GLU 1134	42.656	7.049	0.264	1.00	22.21
ATOM 2291	CB GLU 1134	42.594	7.573	-1.160	1.00	26.28
ATOM 2292	CG GLU 1134	41.214	7.564	-1.765	1.00	40.23
ATOM 2293	CD GLU 1134	40.901	6.347	-2.617	1.00	42.05
ATOM 2294	OE1 GLU 1134	41.727	6.004	-3.504	1.00	44.65
ATOM 2295	OE2 GLU 1134	39.799	5.779	-2.453	1.00	44.07
ATOM 2296	C GLU 1134	42.547	8.164	1.300	1.00	21.07
ATOM 2297	O GLU 1134	43.528	8.877	1.543	1.00	20.78
ATOM 2298	N MET 1135	41.375	8.304	1.940	1.00	20.24
ATOM 2300	CA MET 1135	41.233	9.304	2.996	1.00	16.52
ATOM 2301	CB MET 1135	39.775	9.658	3.319	1.00	17.57
ATOM 2302	CG MET 1135	39.158	10.807	2.420	1.00	15.02
ATOM 2303	SD MET 1135	40.199	12.320	2.187	1.00	20.17
ATOM 2304	CE MET 1135	40.632	12.648	3.877	1.00	13.20
ATOM 2305	C MET 1135	41.974	8.751	4.191	1.00	20.41
ATOM 2306	O MET 1135	42.772	9.461	4.787	1.00	25.79
ATOM 2307	N TYR 1136	41.836	7.448	4.445	1.00	20.30
ATOM 2309	CA TYR 1136	42.565	6.817	5.540	1.00	17.65
ATOM 2310	CB TYR 1136	42.082	5.394	5.832	1.00	21.89
ATOM 2311	CG TYR 1136	42.786	4.775	7.041	1.00	26.17
ATOM 2312	CD1 TYR 1136	42.702	5.353	8.325	1.00	20.81
ATOM 2313	CE1 TYR 1136	43.364	4.781	9.427	1.00	17.33
ATOM 2314	CD2 TYR 1136	43.554	3.612	6.900	1.00	26.03
ATOM 2315	CE2 TYR 1136	44.225	3.034	7.998	1.00	12.75
ATOM 2316	CZ TYR 1136	44.124	3.615	9.245	1.00	16.64
ATOM 2317	OH TYR 1136	44.791	2.999	10.281	1.00	17.57
ATOM 2319	C TYR 1136	44.077	6.847	5.267	1.00	14.28
ATOM 2320	O TYR 1136	44.892	7.066	6.179	1.00	19.62
ATOM 2321	N GLN 1137	44.479	6.693	4.022	1.00	12.55



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## FIG. 7(47)

ATOM	2323	CA	GLN	1137	45.903	6.777	3.758	1.00	16.34
ATOM	2324	CB	GLN	1137	46.218	6.412	2.325	1.00	18.36
ATOM	2325	CG	GLN	1137	47.702	6.654	1.945	1.00	21.79
ATOM	2326	CD	GLN	1137	48.613	5.655	2.561	1.00	14.21
ATOM	2327	OE1	GLN	1137	48.416	4.469	2.381	1.00	22.64
ATOM	2328	NE2	GLN	1137	49.571	6.111	3.344	1.00	18.97
ATOM	2331	C	GLN	1137	46.415	8.193	4.041	1.00	20.40
ATOM	2332	O	GLN	1137	47.598	8.378	4.391	1.00	25.11
ATOM	2333	N	THR	1138	45.564	9.194	3.807	1.00	18.65
ATOM	2335	CA	THR	1138	45.939	10.568	4.068	1.00	15.52
ATOM	2336	CB	THR	1138	44.921	11.507	3.538	1.00	19.97
ATOM	2337	OG1	THR	1138	44.797	11.257	2.144	1.00	18.74
ATOM	2339	CG2	THR	1138	45.381	12.939	3.722	1.00	21.70
ATOM	2340	C	THR	1138	46.111	10.721	5.566	1.00	12.73
ATOM	2341	O	THR	1138	47.067	11.344	6.010	1.00	18.83
ATOM	2342	N	MET	1139	45.233	10.118	6.352	1.00	9.32
ATOM	2344	CA	MET	1139	45.402	10.151	7.809	1.00	12.25
ATOM	2345	CB	MET	1139	44.295	9.349	8.480	1.00	13.21
ATOM	2346	CG	MET	1139	42.967	10.007	8.354	1.00	5.60
ATOM	2347	SD	MET	1139	41.708	8.982	9.003	1.00	17.66
ATOM	2348	CE	MET	1139	40.510	9.337	7.925	1.00	2.00
ATOM	2349	C	MET	1139	46.773	9.567	8.198	1.00	15.96
ATOM	2350	O	MET	1139	47.573	10.237	8.855	1.00	17.30
ATOM	2351	N	LEU	1140	47.058	8.333	7.770	1.00	15.29
ATOM	2353	CA	LEU	1140	48.357	7.735	8.081	1.00	14.20
ATOM	2354	CB	LEU	1140	48.542	6.409	7.326	1.00	6.27
ATOM	2355	CG	LEU	1140	47.511	5.373	7.745	1.00	15.42
ATOM	2356	CD1	LEU	1140	47.656	4.103	6.927	1.00	8.64
ATOM	2357	CD2	LEU	1140	47.648	5.103	9.246	1.00	14.99
ATOM	2358	C	LEU	1140	49.518	8.684	7.751	1.00	17.20
ATOM	2359	O	LEU	1140	50.552	8.691	8.442	1.00	18.73
ATOM	2360	N	ASP	1141	49.396	9.413	6.644	1.00	20.16
ATOM	2362	CA	ASP	1141	50.442	10.374	6.229	1.00	19.52
ATOM	2363	CB	ASP	1141	50.139	10.963	4.851	1.00	20.89
ATOM	2364	CG	ASP	1141	50.228	9.942	3.772	1.00	25.01
ATOM	2365	OD1	ASP	1141	50.537	8.765	4.074	1.00	30.17
ATOM	2366	OD2	ASP	1141	49.994	10.321	2.624	1.00	26.42
ATOM	2367	C	ASP	1141	50.627	11.521	7.207	1.00	15.10
ATOM	2368	O	ASP	1141	51.762	11.905	7.502	1.00	8.73
ATOM	2369	N	CYS	1142	49.504	12.101	7.637	1.00	10.75

## FIG. 7(48)

ATOM 2371 CA CYS 1142	49.516	13.196	8.590	1.00	13.88
ATOM 2372 CB CYS 1142	48.110	13.776	8.739	1.00	17.83
ATOM 2373 SG CYS 1142	47.414	14.574	7.291	1.00	17.66
ATOM 2374 C CYS 1142	50.042	12.717	9.961	1.00	15.52
ATOM 2375 O CYS 1142	50.545	13.513	10.734	1.00	16.31
ATOM 2376 N TRP 1143	49.883	11.424	10.266	1.00	20.06
ATOM 2378 CA TRP 1143	50.344	10.830	11.528	1.00	17.66
ATOM 2379 CB TRP 1143	49.393	9.727	11.991	1.00	15.44
ATOM 2380 CG TRP 1143	48.041	10.236	12.273	1.00	14.25
ATOM 2381 CD2 TRP 1143	46.814	9.495	12.233	1.00	18.13
ATOM 2382 CE2 TRP 1143	45.774	10.401	12.540	1.00	12.59
ATOM 2383 CE3 TRP 1143	46.490	8.143	11.966	1.00	16.02
ATOM 2384 CD1 TRP 1143	47.710	11.514	12.605	1.00	7.90
ATOM 2385 NE1 TRP 1143	46.355	11.618	12.768	1.00	13.52
ATOM 2387 CZ2 TRP 1143	44.425	10.012	12.592	1.00	8.83
ATOM 2388 CZ3 TRP 1143	45.155	7.755	12.017	1.00	11.61
ATOM 2389 CH2 TRP 1143	44.133	8.691	12.327	1.00	16.83
ATOM 2390 C TRP 1143	51.765	10.281	11.442	1.00	23.22
ATOM 2391 O TRP 1143	52.208	9.507	12.298	1.00	27.31
ATOM 2392 N HIS 1144	52.510	10.722	10.440	1.00	24.48
ATOM 2394 CA HIS 1144	53.876	10.280	10.299	1.00	26.08
ATOM 2395 CB HIS 1144	54.495	10.859	9.023	1.00	19.25
ATOM 2396 CG HIS 1144	55.791	10.214	8.654	1.00	18.57
ATOM 2397 CD2 HIS 1144	56.923	10.003	9.374	1.00	14.60
ATOM 2398 ND1 HIS 1144	56.016	9.657	7.415	1.00	19.61
ATOM 2400 CE1 HIS 1144	57.231	9.133	7.387	1.00	19.99
ATOM 2401 NE2 HIS 1144	57.803	9.332	8.562	1.00	15.04
ATOM 2403 C HIS 1144	54.710	10.671	11.542	1.00	32.65
ATOM 2404 O HIS 1144	54.626	11.795	12.031	1.00	31.70
ATOM 2405 N GLY 1145	55.541	9.734	12.016	1.00	37.26
ATOM 2407 CA GLY 1145	56.393	9.970	13.168	1.00	31.32
ATOM 2408 C GLY 1145	57.251	11.212	13.001	1.00	35.04
ATOM 2409 O GLY 1145	57.372	11.989	13.942	1.00	38.42
ATOM 2410 N GLU 1146	57.915	11.373	11.852	1.00	34.51
ATOM 2412 CA GLU 1146	58.735	12.577	11.598	1.00	37.16
ATOM 2413 CB GLU 1146	59.871	12.303	10.627	1.00	37.16
ATOM 2414 CG GLU 1146	61.093	11.742	11.292	1.00	50.26
ATOM 2415 CD GLU 1146	61.186	10.243	11.110	1.00	54.17
ATOM 2416 OE1 GLU 1146	61.158	9.509	12.125	1.00	55.25
ATOM 2417 OE2 GLU 1146	61.280	9.804	9.938	1.00	59.09

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## FIG. 7(49)

ATOM 2418 C GLU 1146	57.910	13.742	11.052	1.00	36.46
ATOM 2419 O GLU 1146	57.378	13.665	9.934	1.00	35.72
ATOM 2420 N PRO 1147	57.861	14.868	11.791	1.00	34.09
ATOM 2421 CD PRO 1147	58.490	15.147	13.099	1.00	33.72
ATOM 2422 CA PRO 1147	57.082	16.020	11.336	1.00	29.77
ATOM 2423 CB PRO 1147	57.446	17.106	12.351	1.00	27.86
ATOM 2424 CG PRO 1147	57.668	16.334	13.619	1.00	26.72
ATOM 2425 C PRO 1147	57.436	16.417	9.922	1.00	27.04
ATOM 2426 O PRO 1147	56.559	16.784	9.158	1.00	30.21
ATOM 2427 N SER 1148	58.698	16.255	9.551	1.00	22.56
ATOM 2429 CA SER 1148	59.177	16.616	8.210	1.00	24.23
ATOM 2430 CB SER 1148	60.707	16.724	8.203	1.00	27.40
ATOM 2431 OG SER 1148	61.314	15.477	8.545	1.00	36.19
ATOM 2433 C SER 1148	58.743	15.674	7.101	1.00	21.41
ATOM 2434 O SER 1148	58.890	15.964	5.913	1.00	24.41
ATOM 2435 N GLN 1149	58.272	14.508	7.485	1.00	25.45
ATOM 2437 CA GLN 1149	57.831	13.547	6.497	1.00	26.28
ATOM 2438 CB GLN 1149	58.224	12.142	6.946	1.00	32.79
ATOM 2439 CG GLN 1149	59.705	11.907	6.958	1.00	25.96
ATOM 2440 CD GLN 1149	60.279	12.196	5.622	1.00	32.77
ATOM 2441 OE1 GLN 1149	59.765	11.744	4.591	1.00	36.63
ATOM 2442 NE2 GLN 1149	61.312	13.007	5.604	1.00	37.86
ATOM 2445 C GLN 1149	56.327	13.670	6.278	1.00	23.40
ATOM 2446 O GLN 1149	55.783	13.145	5.306	1.00	23.12
ATOM 2447 N ARG 1150	55.662	14.339	7.215	1.00	22.72
ATOM 2449 CA ARG 1150	54.226	14.581	7.132	1.00	17.86
ATOM 2450 CB ARG 1150	53.721	15.243	8.392	1.00	16.38
ATOM 2451 CG ARG 1150	54.161	14.532	9.598	1.00	13.96
ATOM 2452 CD ARG 1150	53.285	14.903	10.728	1.00	15.08
ATOM 2453 NE ARG 1150	53.632	14.090	11.879	1.00	24.55
ATOM 2455 CZ ARG 1150	54.066	14.564	13.040	1.00	27.63
ATOM 2456 NH1 ARG 1150	54.192	15.871	13.230	1.00	27.18
ATOM 2459 NH2 ARG 1150	54.423	13.717	13.991	1.00	29.34
ATOM 2462 C ARG 1150	54.025	15.559	6.008	1.00	16.82
ATOM 2463 O ARG 1150	54.913	16.382	5.715	1.00	13.09
ATOM 2464 N PRO 1151	52.873	15.464	5.320	1.00	18.01
ATOM 2465 CD PRO 1151	51.793	14.453	5.320	1.00	6.32
ATOM 2466 CA PRO 1151	52.726	16.442	4.240	1.00	18.95
ATOM 2467 CB PRO 1151	51.489	15.948	3.492	1.00	16.01
ATOM 2468 CG PRO 1151	50.726	15.092	4.520	1.00	10.59

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## FIG. 7(50)

ATOM 2469 C PRO 1151	52.574	17.861	4.805	1.00	18.27
ATOM 2470 O PRO 1151	52.422	18.039	6.006	1.00	19.70
ATOM 2471 N THR 1152	52.763	18.860	3.958	1.00	19.16
ATOM 2473 CA THR 1152	52.604	20.251	4.366	1.00	14.92
ATOM 2474 CB THR 1152	53.511	21.138	3.560	1.00	13.80
ATOM 2475 OG1 THR 1152	53.146	21.080	2.163	1.00	17.02
ATOM 2477 CG2 THR 1152	54.918	20.697	3.764	1.00	5.40
ATOM 2478 C THR 1152	51.196	20.571	3.979	1.00	13.16
ATOM 2479 O THR 1152	50.682	19.905	3.084	1.00	19.18
ATOM 2480 N PHE 1153	50.561	21.572	4.599	1.00	14.62
ATOM 2482 CA PHE 1153	49.176	21.910	4.224	1.00	12.87
ATOM 2483 CB PHE 1153	48.588	23.023	5.083	1.00	11.95
ATOM 2484 CG PHE 1153	48.157	22.558	6.422	1.00	9.67
ATOM 2485 CD1 PHE 1153	47.037	21.740	6.560	1.00	14.91
ATOM 2486 CD2 PHE 1153	48.891	22.857	7.533	1.00	15.01
ATOM 2487 CE1 PHE 1153	46.660	21.215	7.802	1.00	9.44
ATOM 2488 CE2 PHE 1153	48.529	22.340	8.789	1.00	13.43
ATOM 2489 CZ PHE 1153	47.405	21.513	8.913	1.00	8.41
ATOM 2490 C PHE 1153	49.073	22.253	2.750	1.00	16.98
ATOM 2491 O PHE 1153	48.078	21.927	2.114	1.00	21.60
ATOM 2492 N SER 1154	50.116	22.841	2.168	1.00	15.39
ATOM 2494 CA SER 1154	50.031	23.123	0.754	1.00	17.55
ATOM 2495 CB SER 1154	51.251	23.868	0.254	1.00	25.28
ATOM 2496 OG SER 1154	51.244	25.190	0.776	1.00	33.35
ATOM 2498 C SER 1154	49.850	21.815	0.022	1.00	20.26
ATOM 2499 O SER 1154	48.932	21.704	-0.798	1.00	23.74
ATOM 2500 N GLU 1155	50.670	20.808	0.347	1.00	19.47
ATOM 2502 CA GLU 1155	50.534	19.493	-0.307	1.00	16.55
ATOM 2503 CB GLU 1155	51.588	18.513	0.188	1.00	19.82
ATOM 2504 CG GLU 1155	52.932	18.773	-0.486	1.00	20.20
ATOM 2505 CD GLU 1155	54.128	18.210	0.249	1.00	23.11
ATOM 2506 OE1 GLU 1155	55.226	18.377	-0.312	1.00	35.76
ATOM 2507 OE2 GLU 1155	54.009	17.631	1.359	1.00	21.09
ATOM 2508 C GLU 1155	49.153	18.918	-0.107	1.00	16.59
ATOM 2509 O GLU 1155	48.548	18.414	-1.055	1.00	21.37
ATOM 2510 N LEU 1156	48.619	19.034	1.101	1.00	16.01
ATOM 2512 CA LEU 1156	47.272	18.532	1.375	1.00	18.06
ATOM 2513 CB LEU 1156	46.969	18.521	2.875	1.00	15.74
ATOM 2514 CG LEU 1156	47.688	17.493	3.759	1.00	11.35
ATOM 2515 CD1 LEU 1156	47.786	18.049	5.201	1.00	2.08

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## FIG. 7(51)

ATOM 2516 CD2 LEU 1156	46.927	16.150	3.708	1.00	14.36
ATOM 2517 C LEU 1156	46.165	19.287	0.638	1.00	20.03
ATOM 2518 O LEU 1156	45.105	18.711	0.355	1.00	26.86
ATOM 2519 N VAL 1157	46.354	20.570	0.355	1.00	21.44
ATOM 2521 CA VAL 1157	45.303	21.283	-0.362	1.00	21.15
ATOM 2522 CB VAL 1157	45.513	22.801	-0.381	1.00	21.33
ATOM 2523 CG1 VAL 1157	44.569	23.453	-1.368	1.00	15.98
ATOM 2524 CG2 VAL 1157	45.198	23.340	0.974	1.00	13.87
ATOM 2525 C VAL 1157	45.270	20.721	-1.760	1.00	22.88
ATOM 2526 O VAL 1157	44.198	20.508	-2.333	1.00	25.54
ATOM 2527 N GLU 1158	46.445	20.400	-2.282	1.00	23.10
ATOM 2529 CA GLU 1158	46.503	19.815	-3.603	1.00	27.24
ATOM 2530 CB GLU 1158	47.922	19.756	-4.115	1.00	32.82
ATOM 2531 CG GLU 1158	47.969	18.978	-5.404	1.00	44.73
ATOM 2532 CD GLU 1158	49.187	19.268	-6.212	1.00	51.53
ATOM 2533 OE1 GLU 1158	49.007	19.887	-7.292	1.00	54.31
ATOM 2534 OE2 GLU 1158	50.298	18.869	-5.765	1.00	51.10
ATOM 2535 C GLU 1158	45.939	18.403	-3.643	1.00	26.42
ATOM 2536 O GLU 1158	45.167	18.051	-4.546	1.00	25.91
ATOM 2537 N HIS 1159	46.347	17.591	-2.669	1.00	26.36
ATOM 2539 CA HIS 1159	45.897	16.226	-2.611	1.00	21.52
ATOM 2540 CB HIS 1159	46.674	15.444	-1.576	1.00	25.28
ATOM 2541 CG HIS 1159	46.322	13.991	-1.545	1.00	24.66
ATOM 2542 CD2 HIS 1159	46.408	13.030	-2.497	1.00	24.44
ATOM 2543 ND1 HIS 1159	45.749	13.387	-0.452	1.00	21.30
ATOM 2545 CE1 HIS 1159	45.489	12.125	-0.731	1.00	23.16
ATOM 2546 NE2 HIS 1159	45.879	11.884	-1.961	1.00	19.88
ATOM 2548 C HIS 1159	44.402	16.104	-2.391	1.00	21.56
ATOM 2549 O HIS 1159	43.741	15.311	-3.066	1.00	22.19
ATOM 2550 N LEU 1160	43.852	16.874	-1.456	1.00	20.25
ATOM 2552 CA LEU 1160	42.408	16.832	-1.209	1.00	17.66
ATOM 2553 CB LEU 1160	42.111	17.502	0.130	1.00	17.84
ATOM 2554 CG LEU 1160	42.676	16.760	1.352	1.00	20.17
ATOM 2555 CD1 LEU 1160	42.472	17.542	2.619	1.00	21.45
ATOM 2556 CD2 LEU 1160	41.992	15.454	1.512	1.00	19.45
ATOM 2557 C LEU 1160	41.566	17.418	-2.395	1.00	17.71
ATOM 2558 O LEU 1160	40.426	17.030	-2.624	1.00	15.39
ATOM 2559 N GLY 1161	42.130	18.356	-3.153	1.00	23.52
ATOM 2561 CA GLY 1161	41.434	18.879	-4.322	1.00	21.37
ATOM 2562 C GLY 1161	41.342	17.741	-5.346	1.00	23.91

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## FIG. 7(52)

ATOM 2563 O GLY 1161	40.295	17.526	-5.971	1.00	23.05
ATOM 2564 N ASN 1162	42.439	16.997	-5.520	1.00	21.49
ATOM 2566 CA ASN 1162	42.428	15.854	-6.428	1.00	22.31
ATOM 2567 CB ASN 1162	43.771	15.109	-6.427	1.00	22.34
ATOM 2568 CG ASN 1162	44.904	15.888	-7.062	1.00	20.03
ATOM 2569 OD1 ASN 1162	44.705	16.903	-7.701	1.00	28.17
ATOM 2570 ND2 ASN 1162	46.117	15.401	-6.873	1.00	32.22
ATOM 2573 C ASN 1162	41.356	14.851	-5.969	1.00	23.05
ATOM 2574 O ASN 1162	40.570	14.378	-6.769	1.00	26.11
ATOM 2575 N LEU 1163	41.360	14.490	-4.688	1.00	21.05
ATOM 2577 CA LEU 1163	40.405	13.523	-4.166	1.00	19.91
ATOM 2578 CB LEU 1163	40.695	13.172	-2.689	1.00	19.18
ATOM 2579 CG LEU 1163	41.675	12.042	-2.275	1.00	18.62
ATOM 2580 CD1 LEU 1163	42.959	12.120	-3.020	1.00	24.35
ATOM 2581 CD2 LEU 1163	41.983	12.043	-0.804	1.00	14.82
ATOM 2582 C LEU 1163	39.015	14.038	-4.331	1.00	19.71
ATOM 2583 O LEU 1163	38.110	13.318	-4.767	1.00	23.11
ATOM 2584 N LEU 1164	38.860	15.328	-4.121	1.00	25.91
ATOM 2586 CA LEU 1164	37.533	15.941	-4.226	1.00	29.28
ATOM 2587 CB LEU 1164	37.603	17.388	-3.726	1.00	31.25
ATOM 2588 CG LEU 1164	36.348	18.176	-3.371	1.00	25.75
ATOM 2589 CD1 LEU 1164	35.429	17.396	-2.435	1.00	31.52
ATOM 2590 CD2 LEU 1164	7.018	15.866	-5.653	1.00	30.07
ATOM 2592 O LEU 1164	35.953	15.330	-5.903	1.00	32.61
ATOM 2593 N GLN 1165	37.810	16.344	-6.598	1.00	33.76
ATOM 2595 CA GLN 1165	37.423	16.317	-8.003	1.00	39.95
ATOM 2596 CB GLN 1165	38.451	17.048	-8.855	1.00	46.90
ATOM 2597 CG GLN 1165	38.758	18.474	-8.480	1.00	49.81
ATOM 2598 CD GLN 1165	39.874	19.024	-9.348	1.00	56.23
ATOM 2599 OE1 GLN 1165	41.056	18.945	-8.997	1.00	55.97
ATOM 2600 NE2 GLN 1165	39.508	19.536	-10.518	1.00	60.66
ATOM 2603 C GLN 1165	37.304	14.898	-8.554	1.00	39.33
ATOM 2604 O GLN 1165	36.652	14.685	-9.568	1.00	42.09
ATOM 2605 N ALA 1166	38.059	13.965	-7.988	1.00	36.82
ATOM 2607 CA ALA 1166	37.994	12.586	-8.441	1.00	34.66
ATOM 2608 CB ALA 1166	39.096	11.748	-7.814	1.00	32.78
ATOM 2609 C ALA 1166	36.640	12.103	-7.991	1.00	36.63
ATOM 2610 O ALA 1166	35.969	11.381	-8.713	1.00	39.47
ATOM 2611 N ASN 1167	36.226	12.532	-6.800	1.00	40.01
ATOM 2613 CA ASN 1167	34.911	12.158	-6.264	1.00	42.40

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## FIG. 7(53)

ATOM 2614	CB	ASN	1167	34.641	12.878	-4.919	1.00	42.99
ATOM 2615	CG	ASN	1167	33.354	12.409	-4.242	1.00	40.80
ATOM 2616	OD1	ASN	1167	32.306	13.046	-4.348	1.00	40.18
ATOM 2617	ND2	ASN	1167	33.436	11.294	-3.532	1.00	36.58
ATOM 2620	C	ASN	1167	33.822	12.498	-7.299	1.00	41.88
ATOM 2621	O	ASN	1167	32.837	11.789	-7.391	1.00	41.83
ATOM 2622	N	ALA	1168	34.057	13.558	-8.085	1.00	45.09
ATOM 2624	CA	ALA	1168	33.187	14.065	-9.160	1.00	46.02
ATOM 2625	CB	ALA	1168	32.507	12.933	-9.929	1.00	45.92
ATOM 2626	C	ALA	1168	32.181	15.123	-8.728	1.00	48.61
ATOM 2628	O	ALA	1168	32.627	16.233	-8.363	1.00	50.20
ATOM 2629	O	HOH	1	46.858	21.496	16.690	1.00	23.54
ATOM 2632	O	HOH	2	49.904	21.605	17.271	1.00	36.65
ATOM 2635	O	HOH	3	49.682	18.133	17.657	1.00	50.47
ATOM 2638	O	HOH	4	56.606	19.394	15.202	1.00	25.28
ATOM 2641	O	HOH	5	57.215	21.949	11.395	1.00	37.66
ATOM 2644	O	HOH	6	56.082	25.850	12.933	1.00	34.63
ATOM 2647	O	HOH	7	52.355	23.016	6.377	1.00	21.45
ATOM 2650	O	HOH	8	51.153	27.376	4.088	1.00	29.93
ATOM 2653	O	HOH	9	44.820	28.454	1.120	1.00	16.47
ATOM 2656	O	HOH	10	46.377	38.321	5.198	1.00	31.93
ATOM 2659	O	HOH	11	43.987	38.133	3.129	1.00	52.41
ATOM 2662	O	HOH	12	53.321	40.451	6.702	1.00	31.88
ATOM 2665	O	HOH	13	44.977	49.530	8.305	1.00	44.56
ATOM 2668	O	HOH	14	44.379	43.338	7.798	1.00	31.72
ATOM 2671	O	HOH	15	39.477	40.232	8.468	1.00	36.65
ATOM 2674	O	HOH	16	41.987	36.751	10.646	1.00	23.26
ATOM 2677	O	HOH	17	41.711	41.873	6.802	1.00	34.79
ATOM 2680	O	HOH	18	29.514	24.656	18.739	1.00	31.43
ATOM 2683	O	HOH	19	27.493	22.351	15.517	1.00	42.03
ATOM 2686	O	HOH	20	24.345	20.097	15.325	1.00	24.92
ATOM 2689	O	HOH	21	32.381	18.452	20.520	1.00	75.12
ATOM 2692	O	HOH	22	31.071	8.282	19.507	1.00	31.68
ATOM 2695	O	HOH	23	33.001	7.742	21.598	1.00	38.67
ATOM 2698	O	HOH	24	34.802	6.439	18.667	1.00	34.24
ATOM 2701	O	HOH	25	32.273	6.932	14.174	1.00	41.21
ATOM 2704	O	HOH	26	34.059	5.245	12.870	1.00	49.30
ATOM 2707	O	HOH	27	38.059	3.432	4.799	1.00	63.69
ATOM 2710	O	HOH	28	41.089	1.841	4.421	1.00	42.86
ATOM 2713	O	HOH	29	45.081	9.234	-0.557	1.00	39.97

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FIG. 7(54)

ATOM 2716	O	HOH	30	47.301	11.215	1.271	1.00	58.47
ATOM 2719	O	HOH	31	50.046	14.055	0.168	1.00	37.58
ATOM 2722	O	HOH	32	54.425	8.937	4.821	1.00	36.74
ATOM 2725	O	HOH	33	52.279	7.099	5.152	1.00	13.04
ATOM 2728	O	HOH	34	53.025	7.510	7.740	1.00	25.53
ATOM 2731	O	HOH	35	50.852	6.818	10.462	1.00	18.29
ATOM 2734	O	HOH	36	46.448	7.762	15.254	1.00	9.08
ATOM 2737	O	HOH	37	47.326	3.930	20.460	1.00	34.16
ATOM 2740	O	HOH	38	48.264	12.367	20.804	1.00	22.14
ATOM 2743	O	HOH	39	44.276	8.193	24.312	1.00	40.52
ATOM 2746	O	HOH	40	37.491	11.237	25.975	1.00	38.71
ATOM 2749	O	HOH	41	37.592	13.565	23.164	1.00	44.55
ATOM 2752	O	HOH	42	34.887	12.418	26.235	1.00	50.96
ATOM 2755	O	HOH	43	24.823	15.933	17.377	1.00	33.72
ATOM 2758	O	HOH	44	23.302	7.532	7.049	1.00	57.56
ATOM 2761	O	HOH	45	29.954	11.864	-3.109	1.00	38.05
ATOM 2764	O	HOH	46	42.099	3.812	18.044	1.00	40.12
ATOM 2767	O	HOH	47	38.653	0.737	18.003	1.00	37.30
ATOM 2770	O	HOH	48	34.169	14.465	16.707	1.00	20.01
ATOM 2773	O	HOH	49	37.055	32.622	16.570	1.00	31.20
ATOM 2776	O	HOH	50	29.361	31.729	15.460	1.00	21.90
ATOM 2779	O	HOH	51	25.866	31.495	10.192	1.00	24.50
ATOM 2782	O	HOH	52	23.411	32.276	10.616	1.00	68.85
ATOM 2785	O	HOH	53	22.135	37.404	8.648	1.00	40.22
ATOM 2788	O	HOH	54	28.356	36.997	10.747	1.00	22.41
ATOM 2791	O	HOH	55	29.650	33.190	8.897	1.00	31.98
ATOM 2794	O	HOH	56	34.801	35.904	3.297	1.00	59.73
ATOM 2797	O	HOH	57	24.341	20.715	4.934	1.00	28.10
ATOM 2800	O	HOH	58	37.439	20.236	25.832	1.00	33.07
ATOM 2803	O	HOH	59	32.675	51.977	19.122	1.00	33.52
ATOM 2806	O	HOH	60	32.722	54.003	14.118	1.00	25.01
ATOM 2809	O	HOH	61	29.691	54.769	22.004	1.00	27.32
ATOM 2812	O	HOH	62	21.347	47.577	14.711	1.00	27.85
ATOM 2815	O	HOH	63	25.640	44.257	7.516	1.00	24.71
ATOM 2818	O	HOH	64	24.686	40.916	3.785	1.00	55.13
ATOM 2821	O	HOH	65	33.825	48.721	10.105	1.00	39.11
ATOM 2824	O	HOH	66	39.855	54.415	18.247	1.00	50.97
ATOM 2827	O	HOH	67	36.001	50.053	7.081	1.00	68.99
ATOM 2830	O	HOH	68	37.973	50.651	5.331	1.00	32.12
ATOM 2833	O	HOH	69	40.220	53.227	6.506	1.00	15.02



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FIG. 7(55)

ATOM 2836	O	HOH	70	42.258	51.833	6.993	1.00	21.05
ATOM 2839	O	HOH	71	36.813	55.217	13.035	1.00	46.29
ATOM 2842	O	HOH	72	37.030	55.879	15.712	1.00	39.36
ATOM 2845	O	HOH	73	23.054	45.061	23.607	1.00	51.11
ATOM 2848	O	HOH	74	27.075	54.516	6.971	1.00	51.66
ATOM 2851	O	HOH	75	21.634	54.039	13.651	1.00	36.36
ATOM 2854	O	HOH	76	45.158	47.529	30.699	1.00	56.11
ATOM 2857	O	HOH	77	44.469	45.246	36.699	1.00	36.50
ATOM 2860	O	HOH	78	45.882	41.717	36.085	1.00	28.57
ATOM 2863	O	HOH	79	49.406	41.527	34.292	1.00	65.94
ATOM 2866	O	HOH	80	36.134	49.719	26.101	1.00	63.80
ATOM 2869	O	HOH	81	26.884	28.564	16.554	1.00	49.20
ATOM 2872	O	HOH	82	22.079	10.131	13.444	1.00	56.45
ATOM 2875	O	HOH	83	41.225	4.655	30.464	1.00	58.98
ATOM 2878	O	HOH	84	47.309	1.568	10.326	1.00	21.69
ATOM 2881	O	HOH	85	56.613	18.335	6.527	1.00	33.97
ATOM 2884	O	HOH	86	56.196	16.855	3.275	1.00	47.24
ATOM 2887	O	HOH	87	54.826	22.813	0.598	1.00	33.50
ATOM 2890	O	HOH	88	52.962	21.915	-2.351	1.00	66.62
ATOM 2893	O	HOH	89	47.896	24.242	-3.714	1.00	40.99
ATOM 2896	O	HOH	90	40.295	22.360	25.551	1.00	39.81
ATOM 2899	O	HOH	91	40.188	3.202	15.661	1.00	45.97
ATOM 2902	O	HOH	92	45.159	2.965	19.553	1.00	44.25
ATOM 2905	O	HOH	93	36.591	7.772	23.374	1.00	68.23
ATOM 2908	O	HOH	94	34.274	5.197	22.878	1.00	51.62
ATOM 2911	O	HOH	95	41.935	7.033	29.073	1.00	63.23
ATOM 2914	O	HOH	96	20.731	12.105	14.716	1.00	54.80
ATOM 2917	O	HOH	97	23.147	13.682	17.882	1.00	50.81
ATOM 2920	O	HOH	98	35.515	9.509	-3.558	1.00	56.70
ATOM 2923	O	HOH	99	38.933	9.503	-1.231	1.00	32.18
ATOM 2926	O	HOH	100	51.814	24.438	3.703	1.00	52.00
ATOM 2929	O	HOH	101	51.670	28.690	0.838	1.00	42.41
ATOM 2932	O	HOH	102	46.536	30.610	1.750	1.00	45.80
ATOM 2935	O	HOH	103	45.165	34.214	0.818	1.00	46.46
ATOM 2938	O	HOH	104	42.695	35.194	1.055	1.00	25.82
ATOM 2941	O	HOH	105	39.689	33.418	0.723	1.00	31.99
ATOM 2944	O	HOH	106	23.962	38.119	27.549	1.00	47.89
ATOM 2947	O	HOH	107	25.343	40.908	27.379	1.00	54.09
ATOM 2950	O	HOH	108	20.307	35.738	19.866	1.00	32.61
ATOM 2953	O	HOH	109	28.085	54.303	18.810	1.00	61.58

## FIG. 7(56)

ATOM 2956	O	HOH	110	29.849	56.131	16.966	1.00	37.29
ATOM 2959	O	HOH	111	31.503	58.023	14.735	1.00	46.45
ATOM 2962	O	HOH	112	35.212	55.981	10.499	1.00	92.07
ATOM 2965	O	HOH	113	36.530	55.812	6.656	1.00	30.72
ATOM 2968	O	HOH	114	50.045	41.251	26.059	1.00	82.26
ATOM 2971	O	HOH	115	25.153	36.460	9.054	1.00	50.86
ATOM 2974	O	HOH	116	31.749	32.705	15.359	1.00	30.04
ATOM 2977	O	HOH	117	30.213	3.806	4.940	1.00	39.74
ATOM 2980	O	HOH	118	36.511	1.159	7.275	1.00	41.62
ATOM 2983	O	HOH	119	27.155	4.637	5.224	1.00	79.92
ATOM 2986	O	HOH	120	57.319	11.287	3.459	1.00	33.02
ATOM 2989	O	HOH	121	52.121	12.483	1.755	1.00	45.55
ATOM 2992	O	HOH	122	47.613	14.088	-5.021	1.00	41.01
ATOM 2995	O	HOH	123	57.550	26.628	16.551	1.00	30.62
ATOM 2998	O	HOH	124	32.338	10.125	23.559	1.00	35.48
ATOM 3001	O	HOH	125	31.065	5.698	3.273	1.00	42.74
ATOM 3004	O	HOH	126	32.603	4.523	1.410	1.00	33.30
ATOM 3007	O	HOH	127	34.394	2.617	4.702	1.00	42.12
ATOM 3010	O	HOH	128	37.961	10.373	-4.287	1.00	47.57
ATOM 3013	O	HOH	129	42.215	11.947	-6.970	1.00	45.13
ATOM 3016	O	HOH	130	46.307	8.952	-4.280	1.00	70.02
ATOM 3019	O	HOH	131	50.369	17.388	-3.277	1.00	42.22
ATOM 3022	O	HOH	132	47.231	21.866	22.930	1.00	50.84
ATOM 3025	O	HOH	133	45.362	17.669	27.147	1.00	48.06
ATOM 3028	O	HOH	134	27.005	23.141	18.124	1.00	49.65
ATOM 3031	O	HOH	135	45.726	12.511	-6.453	1.00	45.31
ATOM 3034	O	HOH	136	46.998	11.755	18.088	1.00	37.38
ATOM 3037	O	HOH	137	39.706	37.699	9.894	1.00	40.71
ATOM 3040	O	HOH	138	18.768	48.678	17.798	1.00	74.62
ATOM 3043	O	HOH	139	43.641	47.080	26.762	1.00	44.64
ATOM 3046	O	HOH	140	32.593	53.980	16.744	1.00	43.95
ATOM 3049	O	HOH	141	34.726	55.568	14.399	1.00	45.86
ATOM 3052	O	HOH	142	30.551	53.227	19.638	1.00	35.99
ATOM 3055	O	HOH	143	26.370	55.161	14.300	1.00	33.09
ATOM 3058	O	HOH	144	24.547	55.803	6.815	1.00	58.70
ATOM 3061	O	HOH	145	36.217	52.574	3.221	1.00	68.48
ATOM 3064	O	HOH	146	39.065	54.455	4.595	1.00	48.85
ATOM 3067	O	HOH	147	45.130	40.725	5.433	1.00	62.58
ATOM 3070	O	HOH	148	33.453	43.988	7.386	1.00	41.59
ATOM 3073	O	HOH	149	36.626	45.045	6.144	1.00	54.04

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## FIG. 7(57)

ATOM	3076	O	HOH	150	19.458	36.977	14.386	1.00	56.50
ATOM	3079	O	HOH	151	19.502	40.993	17.850	1.00	43.35
ATOM	3082	O	HOH	152	39.793	38.257	27.760	1.00	63.31
ATOM	3085	O	HOH	153	40.730	53.944	20.682	1.00	49.91
ATOM	3088	O	HOH	154	45.371	49.402	5.710	1.00	41.53
ATOM	3091	O	HOH	155	49.114	26.038	11.482	1.00	34.43
ATOM	3094	O	HOH	156	54.085	28.403	10.828	1.00	28.60
ATOM	3097	O	HOH	157	18.729	14.990	12.752	1.00	44.66
ATOM	3100	O	HOH	158	27.500	2.046	10.138	1.00	47.88
ATOM	3103	O	HOH	159	23.505	7.763	16.082	1.00	45.49
ATOM	3106	O	HOH	160	38.101	22.326	23.406	1.00	43.42
ATOM	3109	O	HOH	161	36.788	33.961	0.261	1.00	59.95
ATOM	3112	O	HOH	162	19.380	27.777	6.595	1.00	56.29
ATOM	3115	O	HOH	163	33.583	33.343	17.339	1.00	68.25
ATOM	3118	O	HOH	164	43.221	53.467	17.853	1.00	62.89
ATOM	3121	O	HOH	165	28.154	41.110	29.042	1.00	61.19
ATOM	3124	O	HOH	166	44.877	47.914	12.583	1.00	21.27
ATOM	3127	O	HOH	167	46.589	45.908	14.329	1.00	39.48
ATOM	3130	O	HOH	168	48.235	43.490	14.297	1.00	46.88
ATOM	3133	O	HOH	169	47.834	0.528	14.762	1.00	74.55
ATOM	3136	O	HOH	170	48.711	-2.009	16.386	1.00	52.45
ATOM	3139	O	HOH	171	41.210	0.396	17.381	1.00	58.05
ATOM	3142	O	HOH	172	43.837	1.538	17.483	1.00	72.30
ATOM	3145	O	HOH	173	41.780	-2.478	14.396	1.00	47.15
ATOM	3148	O	HOH	174	31.466	11.699	21.418	1.00	45.99
ATOM	3151	O	HOH	175	35.046	14.218	20.429	1.00	39.37
ATOM	3154	O	HOH	176	22.639	26.143	4.324	1.00	36.80
ATOM	3157	O	HOH	177	26.114	24.452	6.028	1.00	31.04
ATOM	3160	O	HOH	178	28.927	30.687	4.252	1.00	41.38
ATOM	3163	O	HOH	179	23.899	6.610	18.621	1.00	56.43
ATOM	3166	O	HOH	180	53.386	11.969	4.493	1.00	39.86
ATOM	3169	O	HOH	181	30.051	43.727	0.910	1.00	47.97
ATOM	3172	O	HOH	182	31.659	49.099	8.149	1.00	52.84